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L1
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L2
             50 S L1
L3
          3126 S L1 SSS FUL
L4
               STRUCTURE UPLOADED
L5
          1192 S L4 SUB=L3 FUL
L6
          1934 S L3 NOT L5
L7
          3421 S 2436.13/RID
L8
          1182 S L5 AND L7
L9
          1811 S L6 AND CAPLUS/LC
L10
           123 S L6 NOT L9
          1159 S L8 AND CAPLUS/LC
L11
L12
            23 S L8 NOT L11
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L13
           440 S L6
            26 S L8
L14
           ANALYZE L13 1- RN HIT :
L15
                                     1811 TERMS
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             1 S 237430-03-4/RN
L16
           100 S 142273?/RN
L17
L18
             1 S 210101-16-9/RN
             1 S 168626-94-6/RN
L19
L20
             7 S L17 AND L6
    FILE 'CAPLUS' ENTERED AT 14:02:15 ON 16 SEP 2010
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L21
           492 S 5300.5/RID
L22
            11 S 4469.23/RID
L23
          1495 S L6 NOT (L21 OR L22)
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L24
           247 S L23
L25
           ANALYZE L24 1- RN HIT : 1412 TERMS
    FILE 'REGISTRY' ENTERED AT 14:09:41 ON 16 SEP 2010
L26
          1493 S L23 NOT (L18 OR L19)
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L27
          120 S L26
L28
           96 S L27 NOT (2010/SO OR 2009/SO OR 2008/SO OR 2007/SO OR 2006/SO
=> d 11
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L1
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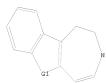
STR



G1 O,S,N G2 C,N

Structure attributes must be viewed using STN Express query preparation.

=> d 14 L4 HAS NO ANSWERS L4 STR



G1 O, S, N

Structure attributes must be viewed using STN Express query preparation.

=> d ibib abs hitstr total

L28 ANSWER 1 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2010:563318 CAPLUS

DOCUMENT NUMBER: 152:548103

TITLE: Preparation of dihydrochromenopyrazolecarboxamide

derivatives and analogs for use as glutamate receptor

INVENTOR(S): Bertinato, Peter; Fichman, Merav; Ghosh, Shomir; Lin,

Jian; Segal, Dalia; Zhang, Zhaoda

PATENT ASSIGNEE(S): Glaxo Group Limited, UK SOURCE: PCT Int. Appl., 132pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT	NO.	KI	ND I	DATE		APPL	ICAT	DATE					
WO 2010049366						WO 2	009-	EP64	20091023				
W:	AE, AG,	AL, AM	, AO,	AT, AU,	AZ,	BA,	BB,	BG,	BH,	BR,	BW,	BY,	BZ,
	CA, CH,	CL, CN	. co,	CR, CU,	CZ,	DE,	DK,	DM,	DO,	DZ,	EC,	EE,	EG,
	ES, FI,	GB, GD	GE,	GH, GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,
	KE, KG,	KM, KN	KP,	KR, KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,
	MD, ME,	MG, MK	MN,	MW, MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PE,
	PG, PH,	PL, PT	RO,	RS, RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	ST,	SV,
	SY, TJ,	TM, TN	TR,	TT, TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW
RW:	AT, BE,	BG, CH	CY,	CZ, DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HR,	HU,
	IE, IS,	IT, LT	LU,	LV, MC,	MK,	MT,	NL,	NO,	PL,	PT,	RO,	SE,	SI,
	SK, SM,	TR, BF	BJ,	CF, CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,
	SN, TD,	TG, BW	GH,	GM, KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,
	ZM, ZW,	AM, AZ	BY,	KG, KZ,	MD,	RU,	TJ,	TM					
PRIORITY APP	LN. INFO	. :				US 2	008-	1086	66P	1	P 2	0081	027
OTHER SOURCE	(S):	MA	RPAT :	152:5481	03								
GI													

AB Title compds. I [A = 0, CONH, NHCO, etc.; ring B = aryl, heteroaryl, or heterocyclyl; T = CO or CR7R8, wherein at least one is CR7R8; each V independently = N or CR2; X = NR4 or CR7R8; Y and Z independently = N or NR11; R2 = alkoxy, alkyl, aryl, etc.; R3 = cycloalkyl, CN, halo, heteroaryl, etc.; R4 = alkyl, alkylsulfonyl, alkanoyl, H, etc.; R7 and R8 independently = alkoxy, alkyl, halo, H, OH, or haloalkyl; or taken together are oxo, carbocycle, or heterocycle; R11 = alkyl, cycloalkyl, or haloalkyl; m = 1 to 3; n = 0 to 2], and their pharmaceutically acceptable salts, are prepared and disclosed as glutamate receptor modulators. Thus, e.g., II was prepared by coupling of 6-fluorochroman-4-one with di-Et oxalate followed by cyclization with methylhydrazine, hydrolysis, and amidation with 3-chloroantiine. Select I were evaluated in mGluR5 antagonist activity assays, e.g., II demonstrated an IC50 value of <1 uM.

IT 1225376-75-9P 1225376-77-1P 1225376-80-6P 1225377-18-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of dihydrochromenopyrazolecarboxamide derivs. and analogs for use as glutamate receptor modulators)

RN 1225376-75-9 CAPLUS

Pyrazolo[3,4-d]pyrido[3,2-b]azepine-3-carboxamide,
1,4,5,6-tetrahydro-1,6-dimethyl-N-(6-methyl-2-pyridinyl)- (CA INDEX NAME)

RN 1225376-77-1 CAPLUS

CN Pyrazolo[4,3-d][1]benzazepine-3-carboxamide,
 1,4,5,6-tetrahydro-1-methy1-N-(6-methy1-2-pyridiny1)-5-oxo- (CA INDEX NAME)

RN 1225376-80-6 CAPLUS

CN Pyrazolo[4,3-d][1]benzazepine-3-carboxamide,
1,4,5,6-tetrahydro-1,6-dimethyl-N-(6-methyl-2-pyridinyl)- (CA INDEX NAME)

RN 1225377-18-3 CAPLUS

CN Pyrazolo[4,3-d][1]benzazepine-3-carboxamide,
9-fluoro-1,4,5,6-tetrahydro-1-methyl-N-(6-methyl-2-pyridinyl)-5-oxo- (CA
INDEX NAME)

REFERENCE COUNT:

6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L28 ANSWER 2 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2010:529065 CAPLUS

DOCUMENT NUMBER: 152:493519

TITLE: Methods and motor neuron survival-promoting compounds

for treatment of neurodegenerative disorders INVENTOR(S): Rubin, Lee; Sinor, Amy; Makhortova, Nina Ruslanovna;

Yang, Yin Miranda; Bennett, Monica Havhurst

PATENT ASSIGNEE(S): President and Fellows of Harvard College, USA

SOURCE: PCT Int. Appl., 236pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATI	PATENT NO.					KIND DATE				APPL	ICAT		DATE				
						-											
WO :	WO 2010048273					A2 20100429			1	WO 2	009-		20091021				
WO :	WO 2010048273				A3		20100819										
	W:	ΑE,	AG,	AL,	AM,	AO,	AT,	AU,	AZ,	BA,	BB,	BG,	BH,	BR,	BW,	BY,	BZ,
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		PG,	PH,	PL,	PT,	RO,	RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	ST,	SV,
		SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HR,	HU,
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		ZM,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM,	ΑP,	EA,	EP,	OA	
PRIORITY	APP	LN.	INFO	. :					1	US 2	-800	1072	80P		P 2	0081	021

AR Methods, compds. and compns. for promoting motor neuron survival and the treatment of a neurodegenerative disorders such as Spinal Muscular Atrophy (SMA) are described herein. In one aspect, the invention provides for a method of promoting motor neuron survival, the method comprising: contacting a motor neuron with a compound that modulates a biol. pathway or a target described herein. The compds, that modulate the biol, pathway or target described herein can be a small mols., peptides, antibodies, antibody fragments, peptidomimetics (e.g., peptoids), amino acids, amino acid analogs, polynucleotides, polynucleotide analogs, nucleotides, nucleotide analogs, organic or inorg. compds. etc.

US 2009-223366P P 20090706

- 676596-65-9 TΤ RL: PAC (Pharmacological activity); PRPH (Prophetic); THU (Therapeutic
 - use); BIOL (Biological study); USES (Uses) (methods and motor neuron survival-promoting compds, for treatment of neurodegenerative disorders)
- RN 676596-65-9 CAPLUS
- CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-bromo-7,12-dihydro- (CA INDEX NAME)

L28 ANSWER 3 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2010:507048 CAPLUS

DOCUMENT NUMBER: 152:496169

TITLE: Methods and compositions for stem cell self-renewal, particularly hematopoietic stem cell (HSC), by

modulating Wnt pathway

INVENTOR(S): Perry, John M.; Li, Linheng; Grindley, Justin C. Stowers Institute for Medical Research, USA PATENT ASSIGNEE(S):

SOURCE: U.S. Pat. Appl. Publ., 85pp., Cont.-in-part of Appl.

No. PCT/US2008/005230.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: Er English

PATENT	INFOR	RMATIO	ON:
PA	TENT	NO.	

PA:	PATENT NO.					KIND DATE			APPLICATION NO.						DATE			
						_									-			
US	2010	0099	186		A1		2010	0422		US 2	009-	5895	51		2	0091	023	
WO	2008	1339	04		A1		2008	1106		WO 2	008-1	JS52:	30		2	0080	423	
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		FI,	GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	
		KG,	KM,	KN,	KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,	
		ME,	MG,	MK,	MN,	MW,	MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	
		PL,	PT,	RO,	RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	TJ,	TM,	
		TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW				
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		TG,	BW,	GH,	GM,	KΕ,	LS,	MW,	ΜZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	
		AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM								
PRIORIT:	Y APP	LN.	INFO	. :						US 2	007-	9260	65P	1	P 2	0070	423	

US 2008-66693P P 20080222 WO 2008-US5230 A2 20080423

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

The present invention relates to methods and kits for expanding a stem cell population using a modulator of the Wnt pathway. More particularly, the invention relates, inter alia, to methods, kits, and compns. for expanding a stem cell population, particularly a hematopoietic stem cell population, in a population of mononuclear cells. The kit comprises a GSK-3β (glycogen synthase kinase 3β) inhibitor, and instructions for the use of the inhibitor. It was demonstrated, that loss of PTEN with constitutively active \$-catenin leads to HSC expansion with loss of early hematopoietic progenitors. It was also demonstrated, that ex vivo pharmacol, manipulation of the PTEN/Akt and Wnt/B-catenin signaling pathways cooperatively drive functional HSC expansion. Bone marrow cells harvested from C57BI/6 (CD45.2) mice were cultured in a HSC expansion media that included CHIR99021, a reversible small mol. inhibitor of GSK-3β. After 14 days, cultured cells were transplanted into lethally irradiated mice. Ex vivo expansion in the presence of CHIR99021 substantially increased the level of longterm, multilineage engraftment and the longterm survival of the recipients.

676596-65-9, 1-Azakenpaullone

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(as reversible GSK-3 β inhibitor; methods and compns. for stem cell

self-renewal, particularly hematopoietic stem cells (HSCs), by modulating Wnt pathway with GSK-3β inhibitors)

- RN
- 676596-65-9 CAPLUS
 Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-bromo-7,12-dihydro- (CA CN INDEX NAME)

L28 ANSWER 4 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:1165454 CAPLUS

DOCUMENT NUMBER: 151:396147

TITLE: Benzazepine compound conivaptan derivatives,

compositions, and therapeutic use INVENTOR(S): Liu, Julie F.; Persichetti, Rose A.

PATENT ASSIGNEE(S): Concert Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA:	TENT :	NO.			KIN	D	DATE			APPL	ICAT	ION :	NO.		D.	ATE	
	2009	1171	44		A1		2009			WO 2	009-	US17	67		2	0090	320
WO	2009 W:	ΑE,	AG,	AL,	AM,	AO,	AT,	AU,	AZ,								
		FI,	GB,	GD,	GE,	GH,	CU, GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,
							KZ,										
							SC, UA,									SY,	TJ,
	RW:						CZ,										
		SK,	TR,	BF,	ВJ,	CF,	CG, KE,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,
		ZW,	AM,	AZ,			KZ,		RU,	TJ,	TM,	AP,	EA,	EP,	OA		
	Y APP OURCE				MARI	PAT	151:	3961		US 2	008-	7007	5P		P 2	0080	320

The invention discloses compds. that are benzazepines derivs. and AB pharmaceutically acceptable salts thereof. More specifically, the invention discloses benzazepines derivs. that are derivs. of conivaptan. Compds. of the invention include I (Z1a, Z1b, Z2a, Z2b = H, D; R1 = CD3, CH2D. CDH2, CD3, provided that when R1 is CH3 at least one Z is D). The invention also provides compns. comprising one or more compds. of the invention and a carrier, as well as the use of the compds. and compns. in methods for treating diseases and conditions that are beneficially treated by administering a dual antagonist of arginine vasopressin (AVP) VIA and V2 receptors, e.g. conivaptan.

Ι

GI

1129433-64-2

1187823-45-5

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1187823-48-8 1187823-49-9 1187823-50-2
1187823-51-3 1187823-52-4 1187823-53-5
1187823-54-6
RI: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (Benzazepine compound conivaptan derivs., compns., and therapeutic use)
RN 1129433-64-2 CAPLUS
(1,1'=Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(methyl-d3)imidazo[4,5-
```

1187823-44-4

1187823-47-7

PAGE 1-A

d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

1129433-66-4

1187823-46-6

PAGE 2-A

RN 1129433-66-4 CAPLUS CN [1,1'-Biphenvll-2-ca:

RN 1187823-44-4 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-4,5-d2-2-(methyl-d3) middazo[4,5-d][1]benzazepin-6(1H)-y1-4,5-d2]carbonyl]phenyl]- (CA INDEX NAME)

RN 1187823-45-5 CAPLUS

[1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-4-d-2-(methyl-d3)imidazo[4,5-d][1]benzazepin-6(1H)-y1-4-d]carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

Ph

RN 1187823-46-6 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-5-d-2-(methyl-d3)imidazo[4,5-d][1]benzazepin-6(1H)-yl-5-d]carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

RN 1187823-47-7 CAPLUS

PAGE 2-A

RN 1187823-48-8 CAPLUS

 $\label{eq:controller} \begin{array}{lll} [1,1]-\texttt{Biphenyl}]-2-\texttt{carboxamide}, & \texttt{N-[4-[(4,5-\texttt{dihydro-5-d-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl-5-d)carbonyl]phenyl}]-& (CA INDEX NAME) \end{array}$

PAGE 2-A

RN 1187823-49-9 CAPLUS

[1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-4-d-2-(methyl-d)midazo[4,5-d][1]benzazepin-6(1H)-y1-4-d]carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

Pl

RN 1187823-50-2 CAPLUS

[1,1'-Biphenyl]-2-carboxamide, N-[4-[4,5-dihydro-5-d-2-(methyl-d)imidazo[4,5-d][1]benzazepin-6(1H)-y1-5-d]carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

Ph

RN 1187823-51-3 CAPLUS

[1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(methyl-d)imidazo[4,5-d][]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

RN 1187823-52-4 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-4,5-d2-2-(methyl-d2)imidazo[4,5-d][1]benzazepin-6(1H)-yl-4,5-d2]carbonyl]phenyl]- (CA INDEX NAME)

RN 1187823-53-5 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-4-d-2-(methyl-d2)imidazo[4,5-d][]]benzazepin-6(1H)-yl-4-d]carbonyl]phenyl]- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 1187823-54-6 CAPLUS

The state of the s

PAGE 1-A

PAGE 2-A



L28 ANSWER 5 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:1050008 CAPLUS

DOCUMENT NUMBER: 151:236777

TITLE: FXR agonists for treating vitamin D associated

diseases

INVENTOR(S): Harnish, Douglas

PATENT ASSIGNEE(S): Wyeth, John, and Brother Ltd., USA SOURCE:

U.S. Pat. Appl. Publ., 53pp.

CODEN: USXXCO DOCUMENT TYPE: Patent.

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	RITY APPLN. INFO.:			US 2008-318039 US 2007-8307P IN LSUS DISPLAY FORMA	20071220
AB	be treated by eleva patient with at lea provided are certai family 27, subfamil 1a, 25-dihydroxyvita VDR activity levels extracellular matri parathycoid hormone metabolism, renal 1 kidney inflammation certain methods of diagnosing the risk	ting th st one n metho y B, po min D3 , certa x prote , serum ipid de didentif that a	e vitamin D farnesoid X ds of modula lypeptide 1 in cells, ce in methods o in, renin an creatinine, position, me pressure, by ing FXR mod patient wil	ng at least one condi- receptor (VDR) activi- receptor (FXR) agonis- ting levels of Cytoch: (CYP27B1) and train methods of modu. f modulating levels o giotensin system (RAS serum albumin, prote- sangial expansion, gl- one resorption, and b- ulators, certain meth- l develop at least on BR activity level, and	ry level in a 1. Also come P 450, lating f an) pathway, inuria, lipid omerulosclerosis, one formation, ods of e condition
IT	629664-83-1 837 837429-88-6 837 6-(3,4-Difluoro-ben 8-carboxylic acid e 837429-92-2 837 847865-39-8 847 RL: PAC (Pharmacolo (Biological study);	429-85- 429-90- zoyl)-4 thyl es 429-93- 865-40- gical a USES (3 837429 0, ,4-dimethyl- ter 837429 3 847865 1 108871 ctivity); TH	5,6-dihydro-4H-thieno -91-1 -38-7	[2,3-d]azepine-
RN CN	629664-83-1 CAPLUS Spiro[azepino[4,5-b		-1(2H),1'-cy	clopentane]-5-carboxy	lic acid,

3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

Page 23

RN 837429-85-3 CAPLUS

CN Imidazo[4,5-d]azepine-4-carboxylic acid, 6-(4-fluorobenzoyl)-3,6,7,8-tetrahydro-, ethyl ester (CA INDEX NAME)

RN 837429-86-4 CAPLUS

CN 4H-Thieno[2,3-d]azepine-8-carboxylic acid, 6-(3,4-difluorobenzoyl)-5,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 837429-88-6 CAPLUS

RN 837429-90-0 CAPLUS

CN 4H-Thieno[2,3-d]azepine-8-carboxylic acid, 6-(3,4-difluorobenzoyl)-5,6-dihydro-4,4-dimethyl-, ethyl ester (CA INDEX NAME)

RN 837429-91-1 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-diffluorobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-, 2,8-diethyl ester (CA INDEX NAME)

RN 837429-92-2 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-, 2-ethyl 8-(1-methylethyl) ester (CA INDEX NAME)

RN 837429-93-3 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-1,4,4-trimethyl-, 2-ethyl 8-(1-methylethyl) ester (CA INDEX NAME)

RN 847865-38-7 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclobutane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 847865-39-8 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopropane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 847865-40-1 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopropane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, 1-methylethyl ester (CA INDEX NAME)

RN 1088713-88-5 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-,2,8-dimethyl ester (CA INDEX NAME)

1

OS.CITING REF COUNT:

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L28 ANSWER 6 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:769550 CAPLUS

DOCUMENT NUMBER: 151:94051

TITLE: Farnesoid X receptor (FXR) agonists for the treatment of nonalcoholic fatty liver and cholesterol gallstone

INVENTOR(S):

Zhang, Songwen; Harnish, Douglas; Evans, Mark J.; Wang, Juan

PATENT ASSIGNEE(S): Wyeth, John, and Brother Ltd., USA

SOURCE: U.S. Pat. Appl. Publ., 61pp.

CODEN: USXXCO DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090163474	A1	20090625	US 2008-253010	20081016
PRIORITY APPLN. INFO.:			US 2007-960925P P	20071019
ASSTONMENT HISTORY FOR	HS DATEM	T AVAILABLE	IN LSHS DISPLAY FORMAT	

The invention provides methods for treating nonalcoholic fatty liver disease with farnesoid X receptor (FXR) agonists. The invention also provides methods for modulating levels of keratinocyte-derived chemokine (KC), alanine aminotransferase (ALT), aspartate aminotransferase (AST), cytokeratin 18 (CK-18), matrix metalloproteinase-9 (MMP-9), matrix metalloproteinase-14 (MMP-14), tissue inhibitor of metalloproteinase 1 (TIMP-1), and Cytochrome P 450 2E1 (CYP2E1); methods for identifying FXR modulators; and methods for treating patients with existing cholesterol

gallstone disease. 837429-85-3 629664-83-1 837429-86-4 837429-89-7 837429-90-0 837429-91-1 837429-92-2 837429-93-3 847865-38-7 847865-39-8 847865-40-1 1088713-88-5

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(FXR agonist for treatment of nonalcoholic fatty liver and cholesterol gallstone disease)

RN 629664-83-1 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopentane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 837429-85-3 CAPLUS

Imidazo[4,5-d]azepine-4-carboxvlic acid,

6-(4-fluorobenzoy1)-3,6,7,8-tetrahydro-, ethyl ester (CA INDEX NAME)

RN 837429-86-4 CAPLUS

CN 4H-Thieno[2,3-d]azepine-8-carboxylic acid, 6-(3,4-difluorobenzoyl)-5,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 837429-89-7 CAPLUS

CN Azepino[4,5-b]indole-5-carboxylic acid, 3-(4-fluorobenzoyl)-1,2,3,6,7,8,9,10-octahydro-1,1-dimethyl-, ethyl ester (CA INDEX NAME)

RN 837429-90-0 CAPLUS

CN 4H-Thieno[2,3-d]azepine-8-carboxylic acid, 6-(3,4-difluorobenzoyl)-5,6-dihydro-4,4-dimethyl-, ethyl ester (CA INDEX NAME)

RN 837429-91-1 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid,
6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-, 2,8-diethyl
ester (CA INDEX NAME)

RN 837429-92-2 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzol)-1,4,5,6-tetrahydro-4,4-dimethyl-, 2-ethyl 8-(1-methylethyl) ester (CA INDEX NAME)

RN 837429-93-3 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-1,4,4-trimethyl-, 2-ethyl 8-(1-methylethyl) ester (CA INDEX NAME)

- RN 847865-38-7 CAPLUS
- CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclobutane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

- RN 847865-39-8 CAPLUS
- CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopropane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

- RN 847865-40-1 CAPLUS
- CN Spiro[azepino[4,5-b]]indole-1(2H),1'-cyclopropane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, 1-methylethyl ester (CA INDEX NAME)

RN 1088713-88-5 CAPLUS

Tool 10-00-0 Carton (Carton) (The Carton) (T

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L28 ANSWER 7 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:647976 CAPLUS

DOCUMENT NUMBER: 151:1373

TITLE: 1,4,5,6-Tetrahydropyrrolo[2,3-d]azepines AND
-imidazo[4,5-d]azepines as modulators of nuclear

-imidazo[4,5-d]azepines as modul receptor activity

INVENTOR(S): Mehlmann, John Francis; Lundquist, Joseph Theodore,
IV; Mahanev, Paige Erin; Crawlev, Matthew Lantz; Kim,

Callain Younghee

PATENT ASSIGNEE(S): Wyeth, John, and Brother Ltd., USA

SOURCE: U.S. Pat. Appl. Publ., 26pp.

CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090137554 PRIORITY APPLN. INFO.: ASSIGNMENT HISTORY FOR U	A1 S PATEN	20090528 T AVAILABLE	US 2008-255216 US 2007-999990P P IN LSUS DISPLAY FORMAT	20081021 20071022

OTHER SOURCE(S): MARPAT 151:1373

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GΙ

AB Disclosed are chemical entities including compds. of Formula (I and pharmaceutically acceptable salts thereof, wherein X is chosen from CN, CP3, CP2H, S(O)nR8, and S(O)2M(R9)R10; n is 1, 2 or 3; Y is chosen from CN, CR11 and N; Z is chosen from O and NH; R1 is chosen from optionally substituted alkyl, cycloalkyl, etc.; R2 is H or optionally substituted alkyl; R3 is chosen from -C(O)R12 and -C(O)N(R9)R10; R4, R5, R6 and R7 are independently chosen from H and optionally substituted alkyl; R8 is chosen from optionally substituted alkyl or cycloalkyl; R9 and R10 is chosen from H or optionally substituted aryl or heteroaryl, etc.; R11 is H or lower alkyl; R12 is H, optionally substituted aryl or heteroaryl, etc.); compns. comprising one or more such chemical entities; and methods of using one or more such chemical entities for modulating the activity of certain nuclear receptors (e.g., farnesoid X) or for the treatment or prevention of one or more symptoms of disease or disorder related to the activity of those receptors.

IT 1158716-04-1P 1158716-05-2P 1158716-06-3P 1158716-07-4P 1158716-08-5P 1158716-09-6P

1158716-10-9P 1158716-11-0P 1158716-12-1P 1158716-13-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (USes)

(tetrahydropyrroloazepines and -imidazoazepines as modulators of farnesoid X receptors for disease treatment) 1158716-04-1 CAPLUS

RN 1158716-04-1 CAPLUS CN Pyrrolo[2,3-d]azepine-8-carboxylic acid,

2-cyano-6-(3, 4-difluorobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-,
1-methylethyl ester (CA INDEX NAME)

RN 1158716-05-2 CAPLUS

CN Pyrrolo[2,3-d]azepine-8-carboxylic acid, 2-cyano-6-(cyclohexylcarbonyl)-1,4,5,6-tetrahydro-4,4-dimethyl-, 1-methylethyl ester (CA INDEX NAME)

RN 1158716-06-3 CAPLUS

CN Pyrrolo[2,3-d]azepine-8-carboxylic acid,
 2-cyano-6-(3-fluorobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-,
1-methylethyl ester (CA INDEX NAME)

$$\begin{array}{c} \text{O} \\ \text{C-OPr-i} \\ \text{H} \\ \text{N} \\ \text{CN} \\ \text{Me} \end{array}$$

RN 1158716-07-4 CAPLUS

RN 1158716-08-5 CAPLUS

CN Pyrrolo[2,3-d]azepine-8-carboxylic acid, 2-cyano-6-(4-cyanobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-, 1-methylethyl ester (CA INDEX NAME)

RN 1158716-09-6 CAPLUS

CN Pyrrolo[2,3-d]azepine-8-carboxylic acid, 6-(3-chlorobenzoyl)-2-cyano-1,4,5,6-tetrahydro-4,4-dimethyl-, 1-methylethyl ester (CA INDEX NAME)

RN 1158716-10-9 CAPLUS

CN Pyrrolo(2,3-d)azepine-8-carboxylic acid,
 2-cyano-1,4,5,6-tetrahydro-4,4-dimethyl-6-(2-thienylcarbonyl)-,
1-methylethyl ester (CA INDEX NAME)

RN 1158716-11-0 CAPLUS

CN Pyrrolo[2,3-d]azepine-8-carboxylic acid,
2-cyano-1,4,5,6-tetrahydro-4,4-dimethyl-6-[3-(trifluoromethyl)benzoyl]-,
1-methylethyl ester (CA INDEX NAME)

RN 1158716-12-1 CAPLUS

CN Pyrrolo[2,3-d]azepine-8-carboxylic acid, 2-cyano-1,4,5,6-tetrahydro-4,4-dimethyl-6-[(tetrahydro-2H-pyran-4-yl)carbonyl]-, 1-methylethyl ester (CA INDEX NAME)

RN 1158716-13-2 CAPLUS

CN Spiro[4H-pyran-4,4'(1'H)-pyrrolo[2,3-d]azepine]-8'-carboxylic acid, 2'-cyano-6'-(3,4-difluorobenzoyl)-2,3,5,5',6,6'-hexahydro-, 1-methylethyl ester (CA INDEX NAME)

IT 1155659-03-2P 1158716-22-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(tetrahydropyrroloazepines and -imidazoazepines as modulators of farnesoid X receptors for disease treatment)

RN 1155659-03-2 CAPLUS

CN Pyrrolo[2,3-d]azepine-8-carboxylic acid,

2-cyano-1,4,5,6-tetrahydro-4,4-dimethyl-, 1-methylethyl ester (CA INDEX NAME)

RN 1158716-22-3 CAPLUS

CN Spiro[4H-pyran-4,4'(1'H)-pyrrolo[2,3-d]azepine]-8'-carboxylic acid,

2'-cyano-2,3,5,5',6,6'-hexahydro-, 1-methylethyl ester (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

10/565,702

L28 ANSWER 8 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:615712 CAPLUS

DOCUMENT NUMBER: 150:555909

TITLE: 1,4,5,6,7,8-Hexahydro-pyrrolo[2,3-d]azepines and -imidazo[4,5-d]azepines as modulators of nuclear

receptor activity

INVENTOR(S): Mehlmann, John Francis; Lundquist, Joseph Theodore,
IV; Mahanev, Paige Erin; Crawley, Matthew Lantz; Kim,

Callain Younghee

PATENT ASSIGNEE(S): Wyeth, John, and Brother Ltd., USA

SOURCE: U.S. Pat. Appl. Publ., 25pp.

CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 20090131409	A1	20090521	US 2008-255232		20081021
PRIORITY APPLN. INFO.:			US 2007-11P	P	20071022

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 150:555909

GI

AB Disclosed are chemical entities including compds, of Formula (I and parmaceutically acceptable salts thereof, wherein X is chosen from CN, CF3, CF2H, S(O)nR8, and S(O)2M(R9R10; n is 1, 2 or 3; Y is chosen from CR11 and N; Z is chosen from and NH; R1 is chosen from optionally substituted alkyl, cycloalkyl, etc.; R2 is H or optionally substituted alkyl; R3 is chosen from -C(O)R12 and -C(O)M(R9R10; R4, R5, R6 and R7 are independently chosen from H and optionally substituted alkyl; R8 is chosen from optionally substituted alkyl or cycloalkyl; R9 and R10 is chosen from H or optionally substituted aryl or heteroaryl, etc.; R11 is H or lower alkyl; R12 is H, optionally substituted aryl or heteroaryl, etc.); compns. comprising one or more such chemical entities; and methods of using one or more such chemical entities for modulating the activity of certain nuclear receptors (e.g., farnesoid X) or for the treatment or prevention of one or more symptoms of disease or disorder related to the activity of those receptors.

IT 1155659-03-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(hexahydro-pyrroloazepines and -imidazoazepines as modulators of farnesoid X receptor activity for treatment of disease)

farnesoid X receptor activity for treatment of dise RN 1155659-03-2 CAPLUS

RN 1155659-03-2 CAPLUS CN Pyrrolo[2,3-d]azepine-8-carboxylic acid,

2-cyano-1,4,5,6-tetrahydro-4,4-dimethyl-, 1-methylethyl ester (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

10/565,702

L28 ANSWER 9 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:292039 CAPLUS

DOCUMENT NUMBER: 150:298942

TITLE: Deuterium-enriched conivaptan

INVENTOR(S): Czarnik, Anthony W. PATENT ASSIGNEE(S): Protia, LLC, USA

SOURCE: U.S. Pat. Appl. Publ., 11pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090069295	A1	20090312	US 2008-196330	20080822
PRIORITY APPLN. INFO.:			US 2007-970983P P	20070909
ASSIGNMENT HISTORY FOR	US PATEN	T AVAILABLE	IN LSUS DISPLAY FORMAT	
OTHER SOURCE(S):	MARPAT	150:298942		

AB The present application describes deuterium-enriched conivaptan,

pharmaceutically acceptable salt forms thereof, and methods of treating using the same.

IT 1129433-59-5 1129433-60-8 1129433-61-9 1129433-62-0 1129433-63-1 1129433-64-2

1129433-65-3 1129433-66-4
RL: PRPH (Prophetic); THU (Therapeutic use); BIOL (Biological study); USES

(deuterium-enriched conivaptan for treatment of hyponatremia)

RN 1129433-59-5 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A

PAGE 2-A

RN 1129433-60-8 CAPLUS CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A

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PAGE 2-A

RN 1129433-61-9 CAPLUS CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A

PAGE 2-A

RN 1129433-62-0 CAPLUS CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A

PAGE 2-A

RN 1129433-63-1 CAPLUS CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A

PAGE 2-A

RN 1129433-64-2 CAPLUS

[1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(methyl-d3)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

CN

10/565,702

PAGE 1-A

PAGE 2-A

RN 1129433-65-3 CAPLUS CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A

PAGE 2-A

RN 1129433-66-4 CAPLUS

[1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-4,5-d2-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-y1-4,5-d2)carbonyl]phenyl]- (CA INDEX NAME)

CN

L28 ANSWER 10 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1457368 CAPLUS

DOCUMENT NUMBER: 150:16134

TITLE: Farnesoid X receptor (FXR) agonists for reducing

lectin-like oxidized low-density lipoprotein receptor

1 (LOX-1) expression, and therapeutic use INVENTOR(S): Harnish, Douglas; Zhang, Songwen

PATENT ASSIGNEE(S): Wyeth, John, and Brother Ltd., USA

U.S. Pat. Appl. Publ., 26pp. SOURCE:

CODEN: USXXCO DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20080300235	A1	20081204	US 2008-130322	20080530
PRIORITY APPLN. INFO.:			US 2007-924822P P	20070601
ASSIGNMENT HISTORY FOR	HS PATEN'	r AVATLABLE	IN LSHS DISPLAY FORMAT	

ASSI NT HISTORY FOR US PATENT AVAILABLE IN LSUS

AB The invention provides methods for treating at least one disease state characterized by elevated expression of the lectin-like oxidized low-d. lipoprotein receptor 1 (LOX-1) in a patient with farnesoid X receptor (FXR) agonists. Also provided are methods for reducing expression of LOX-1 in a cell with FXR agonists.

629664-83-1 837429-85-3,

6-(4-Fluorobenzoy1)-3,6,7,8-tetrahydroimidazo(4,5-d)azepine-4-carboxylic acid ethyl ester 837429-86-4. 6-(3,4-Difluorobenzoy1)-5,6-dihydro-4H-thieno(2,3-d)azepine-8-carboxylic

acid ethyl ester 837429-88-6, 3-(4-Fluorobenzoyl)1,2,3,6,7,8,9,10-octahydroazepino(4,5-b)indole-5-

carboxvlic acid ethvl ester 837429-89-7,

3-(4-Fluorobenzoyl)-1,1-dimethyl-1,2,3,6,7,8,9,10-octahydroazepino[4,5b]indole-5-carboxylic acid ethyl ester 837429-90-0

837429-91-1, 6-(3,4-Difluorobenzoy1)-4,4-dimethyl-1,4,5,6-

tetrahydropyrrolo[2,3-d]azepine-2,8-dicarboxylic acid diethyl ester

837429-92-2 837429-93-3 847865-38-7 847865-39-8 847865-40-1 1088713-88-5

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(FXR agonists for reducing LOX-1 expression, and therapeutic use) 629664-83-1 CAPLUS

RN

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopentane]-5-carboxylic acid, 3-(3,4-difluorobenzov1)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 837429-85-3 CAPLUS

CN Imidazo[4,5-d]azepine-4-carboxylic acid, 6-(4-fluorobenzoyl)-3,6,7,8-tetrahydro-, ethyl ester (CA INDEX NAME)

RN 837429-86-4 CAPLUS

CN 4H-Thieno[2,3-d]azepine-8-carboxylic acid, 6-(3,4-difluorobenzoyl)-5,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 837429-88-6 CAPLUS

CN Azepino[4,5-b]indole-5-carboxylic acid, 3-(4-fluorobenzoyl)-1,2,3,6,7,8,9,10-octahydro-, ethyl ester (CA INDEX NAME)

RN 837429-89-7 CAPLUS

CN Azepino[4,5-b]indole-5-carboxylic acid, 3-(4-fluorobenzoyl)-1,2,3,6,7,8,9,10-octahydro-1,1-dimethyl-, ethyl ester (CA INDEX NAME)

RN 837429-90-0 CAPLUS

CN 4H-Thieno[2,3-d]azepine-8-carboxylic acid, 6-(3,4-difluorobenzoyl)-5,6-dihydro-4,4-dimethyl-, ethyl ester (CA INDEX NAME)

RN 837429-91-1 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-, 2,8-diethyl ester (CA INDEX NAME)

RN 837429-92-2 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-, 2-ethyl 8-(1-methylethyl) ester (CA INDEX NAME)

RN 837429-93-3 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzoyl)-1,4,5-f-tetrahydro-1,4,4-trimethyl-, 2-ethyl 8-(1-methylethyl) ester (CA INDEX NAME)

RN 847865-38-7 CAPLUS

CN Spiro(azepino(4,5-b)indole-1(2H),1'-cyclobutane)-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 847865-39-8 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopropane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 847865-40-1 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopropane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, 1-methylethyl ester (CA INDEX NAME)

RN 1088713-88-5 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-,2,8-dimethyl ester (CA INDEX NAME)

1

OS.CITING REF COUNT:

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L28 ANSWER 11 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1455334 CAPLUS

DOCUMENT NUMBER: 150:16058

TITLE: FXR agonists for the treatment of malignancies

INVENTOR(S): Hartman, Helen B.; Evans, Mark J.
PATENT ASSIGNEE(S): Wyeth, John, and Brother Ltd., USA

SOURCE: U.S. Pat. Appl. Publ., 25pp.

CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20080299118	A1	20081204	US 2008-130221	20080530
PRIORITY APPLN. INFO.:			US 2007-924823P P	20070601
ASSIGNMENT HISTORY FOR	US PATENT	T AVAILABLE	IN LSUS DISPLAY FORMAT	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Provided are certain methods of treating malignancies with farnesoid X

receptor agonists. Also provided are certain methods of inducing RECK gene expression with farnesoid X receptor agonists and methods of reducing at least one feature of a cell with farnesoid X receptor agonists.

II 629664-83-1 837429-85-3.

6-(4-Fluorobenzoy1)-3,6,7,8-tetrahydroimidazo[4,5-D]azepine-4-carboxylic acid ethyl ester 837429-86-4,

6-(3,4-Difluorobenzoyl)-5,6-dihydro-4H-thieno[2,3-D]azepine-8-carboxylic acid ethyl ester 837429-88-6,

3-(4-Fluorobenzoyl)1,2,3,6,7,8,9,10-octahydroazepino[4,5-b]indole-5-

carboxylic acid ethyl ester 837429-89-7, 3-(4-Fluorobenzoyl)-1,1-dimethyl-1,2,3,6,7,8,9,10-octahydroazepino[4,5-

b]indole-5-carboxylic acid ethyl ester 837429-90-0, 6-(3,4-Difluorobenzoyl)-4,4-dimethyl-5,6-dihydro-4H-thieno[2,3-d]azepine-8-

carboxylic acid ethyl ester 837429-91-1,

6-(3,4-Difluorobenzoyl)-4,4-dimethyl-1,4,5,6-tetrahydropyrrolo[2,3-d]azepine-2,8-dicarboxylic acid diethyl ester 837429-92-2

837429-93-3 847865-38-7 847865-39-8

837429-93-3 847865-38-7 847865-39-8 847865-40-1 1088713-88-5

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(farnesoid X receptor agonists for treatment of malignancies by inducing RECK gene expression)

RN 629664-83-1 CAPLUS CN Spiro(azepino(4.5-b)

 $\label{eq:spiro} Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopentane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)$

RN 837429-85-3 CAPLUS

CN Imidazo[4,5-d]azepine-4-carboxylic acid, 6-(4-fluorobenzoyl)-3,6,7,8-tetrahydro-, ethyl ester (CA INDEX NAME)

RN 837429-86-4 CAPLUS

CN 4H-Thieno[2,3-d]azepine-8-carboxylic acid, 6-(3,4-difluorobenzoyl)-5,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 837429-88-6 CAPLUS

CN Azepino[4,5-b]indole-5-carboxylic acid, 3-(4-fluorobenzoyl)-1,2,3,6,7,8,9,10-octahydro-, ethyl ester (CA INDEX NAME)

RN 837429-89-7 CAPLUS

CN Azepino[4,5-b]indole-5-carboxylic acid, 3-(4-fluorobenzoyl)-1,2,3,6,7,8,9,10-octahydro-1,1-dimethyl-, ethyl ester (CA INDEX NAME)

RN 837429-90-0 CAPLUS

CN 4H-Thieno[2,3-d]azepine-8-carboxylic acid, 6-(3,4-difluorobenzoyl)-5,6-dihydro-4,4-dimethyl-, ethyl ester (CA INDEX NAME)

RN 837429-91-1 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid,
6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-, 2,8-diethyl
ester (CA INDEX NAME)

RN 837429-92-2 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-, 2-ethyl 8-(1-methylethyl) ester (CA INDEX NAME)

RN 837429-93-3 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-1,4,4-trimethyl-, 2-ethyl 8-(1-methylethyl) ester (CA INDEX NAME)

RN 847865-38-7 CAPLUS

CN Spiro(azepino(4,5-b)indole-1(2H),1'-cyclobutane)-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 847865-39-8 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopropane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 847865-40-1 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopropane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, 1-methylethyl ester (CA INDEX NAME)

RN 1088713-88-5 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-,2,8-dimethyl ester (CA INDEX NAME)

OS.CITING REF COUNT:

1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS) L28 ANSWER 12 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1339565 CAPLUS

DOCUMENT NUMBER: 149:509677

TITLE: Methods and compositions for stem cell self-renewal, particularly hematopoietic stem cell (HSC), by

modulating PTEN and Wnt pathways

INVENTOR(S): Perry, John M.; Li, Linheng; Grindley, Justin C. PATENT ASSIGNEE(S): Stowers Institute for Medical Research, USA

SOURCE: PCT Int. Appl., 110pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2 PATENT INFORMATION:

					KIND DATE				APPLICATION NO.									
	WO	2008	1339	04		A1	20081106			WO 2008-US5230					20080423			
		W:	ΑE,	AG,	AL,	AM,	AO,	AT,	AU,	AZ,	BA	, BB,	BG,	BH,	BR,	BW,	BY,	BZ,
			CA,	CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK	, DM,	DO,	DZ,	EC,	EE,	EG,	ES,
			FI,	GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR	, HU,	ID,	IL,	IN,	IS,	JP,	KE,
			KG,	KM,	KN,	KΡ,	KR,	KZ,	LA,	LC,	LK	, LR,	LS,	LT,	LU,	LY,	MA,	MD,
			ME,	MG,	MK,	MN,	MW,	MX,	MY,	MZ,	NA	, NG,	NI,	NO,	NZ,	OM,	PG,	PH,
			PL,	PT,	RO,	RS,	RU,	SC,	SD,	SE,	SG	, SK,	SL,	SM,	SV,	SY,	TJ,	TM,
			TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC	, VN,	ZA,	ZM,	zw			
		RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE	, ES,	FI,	FR,	GB,	GR,	HR,	HU,
			ΙE,	IS,	IT,	LT,	LU,	LV,	MC,	MT,	NL	, NO,	PL,	PT,	RO,	SE,	SI,	SK,
												, GQ,						
			TG,	BW,	GH,	GM,	KE,	LS,	MW,	ΜZ,	NA	, SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,
									RU,									
	EΡ	2148	569			A1		2010	0203	EP 2008-743210					20080423			
		R:										, ES,						
			ΙE,	IS,	IT,	LI,	LT,	LU,	LV,	MC,	MT	, NL,	NO,	PL,	PT,	RO,	SE,	SI,
						BA,												
												2010-					0080	
		2010										2009-					0091	
		2010				A1		2010	0805			2010-					0100	
PRIO	RIORITY APPLN. INFO.:				US 2007-926065P					P 20070423								
												2008-					0080	
											WO	2008-1	JS52	30	1	й 2	0800	423

The present invention relates to methods for expanding a stem cell population without significant stem cell differentiation by modulating a PTEN phosphatase pathway and a Wnt pathway. More particularly, the invention relates, to methods and compns. for expanding a stem cell population, particularly a hematopoietic stem cell (HSC) population obtained from peripheral blood, cord blood, or bone marrow. The expanded HSC population comprises cells with a phenotype consisting of CD34-, CD34+/CD38-Thy1+/CD90+/Kit-/Lin-/CD133+/VEGFR2+, CD150+/CD48-/CD244-, CD150-/CD48-/CD244+, CD150-/CD48+/CD244+, and combinations thereof. In one embodiment the invention provides a kit for expanding HSC population for subsequent transplantation into a patient in need thereof. comprises a PTEN inhibitor, a GSK-3β (glycogen synthase kinase 3β) inhibitor, and instructions for the use of the inhibitors. It

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

was demonstrated, that loss of PTEN with constitutively active β-catenin leads to HSC expansion with loss of early hematopoietic progenitors. It was also demonstrated, that ex vivo pharmacol.

ΙT

manipulation of the PTEN/Akt and Wnt/ β -catenin signaling pathways cooperatively drive functional HSC expansion.

676596-65-9, 1-Azakenpaullone

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(reversible GSK-3 β inhibitor; methods and compns. for stem cell self-renewal, particularly hematopoietic stem cell (HSC), by modulating PTEN and Wnt bathways)

RN 676596-65-9 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-bromo-7,12-dihydro- (CA INDEX NAME)

REFERENCE COUNT:

7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L28 ANSWER 13 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1218777 CAPLUS

DOCUMENT NUMBER: 149:458368

TITLE: Photosensitive material composition for lithographic

printing plate precursors and method for image

formation on the same

SOURCE: Jpn. Kokai Tokkyo Koho, 37pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008242241	A	20081009	JP 2007-85012	20070328
PRIORITY APPLN. INFO.:			JP 2007-85012	20070328
OTHER SOURCE(S):	MARPAT	149:458368		
GI				

 $(R^{1})_{1} \qquad (R^{7})_{m} \qquad (R^{8})_{n} \qquad (R^{6})_{m} \qquad (R^{6})_{m} \qquad (R^{5})_{1} \qquad$

AB The title composition contains hexaarylbiimidazole, a chemical sensitizer dye of

т

350-850 nm maximum absorption, and ethylenic unsatd. polymerizable compds., wherein the hexarylbiimidazole has general structure I(Rl-3,5-7 = mono-valent non-metallic group; R4,8 = di-valent non-metallic group; 1,m,n = integer 0-5). The composition shows good storageability and provides printing plate precursor showing high sensitivity short-wavelength semiconductor laser beams.

IT 1068163-76-7 1068163-78-9

RL: TEM (Technical or engineered material use); USES (Uses) (hexaarylbimidazole in photosensitive material composition for lithog. printing plate precursors)

RN 1068163-76-7 CAPLUS

CN 1(8H),2'-Bidibenz[b,f]imidazo[4,5-d]azepine,

2,2'-bis(2-chloropheny1)-2',8'-dihydro-8,8'-dimethy1- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN CN

1068163-78-9 CAPLUS
1(8H),2'-Bidibenz[b,f]imidazo[4,5-d]azepine,
2,2'-bis(2-chloro-4-methoxyphenyl)-2',8'-dihydro-8,8'-dimethyl- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

L28 ANSWER 14 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:977734 CAPLUS

DOCUMENT NUMBER: 149:285597

TITLE: Inducing the differentiation of stem cells into cardiovascular progenitor cells by modulation of the

Wint signaling pathway

INVENTOR(S): Chien, Kenneth R.; Ovang, Yibing; Martin-Puig, Silvia PATENT ASSIGNEE(S): The General Hospital Corporation, USA

SOURCE: PCT Int. Appl., 139pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	ENT I				KIN		DATE				ICAT				-	ATE	
WO	2008	0981	84		A2		2008	0814								0080	
***		AE,	AG,	AL,	AM,	ΑΟ,	AT, CU,	AU,									
		FI,	GB,	GD,	GE,	GH,	GM, KZ,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,
							MX, SC,										
	RW:						UG, CZ,								GR,	HR,	HU,
		TR,	BF,	ВJ,	CF,	CG,	LV,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,
		AM,	AZ,		KG,	KZ,	LS, MD,	RU,	TJ,	TM,	AP,	EA,	EP,	OA			
	2010	837	-		A2			0901		EP 2	008-	7294	15		2	0080	208
	R:	IE,	IS,				CZ, LU,										
PRIORITY	APP	SK, LN.		. :						US 2	007-	9004	96P	1	P 2	0070	209

Methods of inducing stem cells to differentiate and enter the Islet 1+ (Isl1+) lineage that leads to the development of cardiovascular tissue is described. These cells that have entered the Isll+ lineage can then be induced to enter endothelial, smooth muscle, or cardiac lineages. The differentiation can be brought about by either activating or inhibiting Wnt-dependent signal transduction pathways. Cells are induced to enter the pathway by inhibiting Wnt-dependent signaling, and cells that have entered the pathway can be induced to expand by activating Wnt signaling. Another aspect of the present invention relates to use of cells of the isl1+ lineage in subjects for therapeutic and preventative treatment of cardiovascular diseases.

WO 2008-US53449

W 20080208

676596-65-9D, 1-Azakenpaullone, analogs

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(for regulation of cell differentiation; inducing differentiation of stem cells into cardiovascular progenitor cells by modulation of Wnt signaling pathway)

RN 676596-65-9 CAPLUS

Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-bromo-7,12-dihydro- (CA

INDEX NAME)

L28 ANSWER 15 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:946469 CAPLUS

DOCUMENT NUMBER: 149:215928

TITLE: Drosophila models for diseases affecting learning and

memory

INVENTOR(S): McBride, Sean M.J.; Jongens, Thomas A.; Choi,

Catherine H.

PATENT ASSIGNEE(S): Yeshiva University, USA

SOURCE: U.S. Pat. Appl. Publ., 65 pp.
CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO.				KIND DATE			APPLICATION NO.						DATE			
						_		20080807 US 2007-578077									
US	2008	0187	492				2008	0807		US 2	007-	5780	77		20071001		
WO	2005	1048	36		A3		2006	0526		WO 2	005-1	US12	543		2	0050	414
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KP,	KR,	KZ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,
		NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,
		SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,
		ZM,	ZW														
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,
		IS,	IT,	LT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,
		CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,	GM,
		KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,	KG,
		KZ,	MD,	RU,	TJ,	TM											
PRIORITY APPLN. INFO.:									US 2	004-	5629	22P	1	P 2	0040	416	

WO 2005-US12543 W 20050414
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Methods of evaluating a compound for the ability to reduce a mental defect in a metazoan are provided, where the mental defect is caused by Fragile X syndrome, a tauopathy, Huntington's disease, neurofibromatosis 1, or Parkinson's disease. The methods comprise determining whether the compound reduces a mental effect of the analogous disease in a Drosophila melanogaster. Also provided are methods of evaluating a compound for the ability to improve learning or memory in a mammal. The methods comprise determining whether the compound improves learning or memory in a Drosophila melanogaster that is deficient in a dFRML. Addnl., methods of treatment of a mammal deficient in expression of an FMRl gene are provided. The methods comprise treating the mammal with a compound in a pharmaceutically acceptable excipient, where the compound inhibits expression or activity of a group II or group I metabotropic glutamate receptor (mGNR), a inositol trisphosphate receptor (InsP3R), a glycogen synthase kinase-3β (GSK-3B), or a phosphodiseterase-4 (PDE-4) in the mammal.

IT 676596-65-9, 1-Azakenpaullone

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Drosophila models for screening drugs for diseases affecting learning and memory)

RN 676596-65-9 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-bromo-7,12-dihydro- (CA INDEX NAME)

OS.CITING REF COUNT:

1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS) L28 ANSWER 16 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:946238 CAPLUS

DOCUMENT NUMBER: 149:231486

TITLE: Modulation of neurogenesis with biguanides and

GSK3-β agents

INVENTOR(S): Barlow, Carrolee; Carter, Todd; Morse, Andrew;

Treuner, Kai; Lorrain, Kym I.
PATENT ASSIGNEE(S): Braincells, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 43pp.
CODEN: USXXCO

DOCUMENT TYPE: Patent
LANGUAGE: English

LANGUAGE: E: FAMILY ACC. NUM. COUNT: 1

PROTEIN	Acc.	raori.	COOL
PATENT	INFO	RMATI	: NC

	ENT I				KIN	D	DATE				ICAT				D	ATE	
	2008				A1		2008	0807			008-				2	0080	
WO	2008	0978	61		A2		2008	0814		WO 2	008-	US52	839		2	0080	201
WO	2008	0978	61		A3		2009	0827									
	W:	ΑE,	AG,	AL,	AM,	AO,	AT,	AU,	AZ,	BA,	BB,	BG,	BH,	BR,	BW,	BY,	BZ,
		CA,	CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DO,	DZ,	EC,	EE,	EG,	ES,
		FI,	GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,
		KG,	KM,	KN,	KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,
		ME,	MG,	MK,	MN,	MW,	MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,
		PL,	PT,	RO,	RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	TJ,	TM,
		TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW			
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HR,	HU,
		IE,	IS,	IT,	LT,	LU,	LV,	MC,	MT,	NL,	NO,	PL,	PT,	RO,	SE,	SI,	SK,
		TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,
		TG,	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,
		AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AP,	EA,	EP,	OA			

PRIORITY APPLN. INFO.: US 2007-888030P P 20070202
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The instant disclosure describes methods for treating diseases and conditions of the central and peripheral nervous system by stimulating or increasing neurogenesis. The disclosure includes compns. and methods based on use of one or more biguanides in combination with one or more GSK3-B agents, to stimulate or activate the formation of new nerve cells.

IT 676596-65-9, 1-Azakenpaullone

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (modulation of neurogenesis with biquanides and GSK3-β agents)

RN 676596-65-9 CAPLUS

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OS.CITING REF COUNT:

1

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L28 ANSWER 17 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:825260 CAPLUS

DOCUMENT NUMBER: 149:112667

TITLE: Aminoalkyl methacrylate copolymer E for maintaining

solubility of poorly water-soluble drug

INVENTOR(S): Yoshida, Takatsune; Yoshihara, Keiichi; Umejima,

Hiroyuki; Kurimoto, Ippei
PATENT ASSIGNEE(S): Astellas Pharma Inc., Japan

SOURCE: PCT Int. Appl., 40pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ----WO 2008081829 A1 20080710 WO 2007-JP74998 20071226 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DR, DM, DO, DZ, EC, EE, EG, ES, FT, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KF, KF, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LT, MA, MD, KG, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM CA 2007-2673959 CA 2673959 A1 20080710 20071226 US 20080221047 A1 20080911 A1 20091202 US 2007-3473 20071226 EP 2127677 EP 2007-860227 20071226 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR US 2006-877165P P 20061227 WO 2007-JP74998 W 20071226 PRIORITY APPLN. INFO.:

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Disclosed is a pharmaceutical composition containing an aminoalkyl methacrylate copolymer E uniformly blended with an acidic substance and a poorly water-soluble drug. This pharmaceutical composition enables to maintain

solubility of

the poorly water-soluble drug for at least 30 min. For example, Eudragit E, diluted HCI, Tween 80, and distilled water were blended and spray-dried. The above product, tacrolimus, and sucrose were ball milled to obtain a solid dispersion.

IT 1034748-23-6D, derivs.

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (aminoalkyl methacrylate copolymer for maintaining solubility of poorly water-soluble drug)

RN 1034748-23-6 CAPLUS

CN Imidazo[4,5-d][1]benzazepine, 1,4,5,6-tetrahydro- (CA INDEX NAME)

10/565,702

REFERENCE COUNT:

17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L28 ANSWER 18 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:493006 CAPLUS

DOCUMENT NUMBER: 148:472014

TITLE: Thienodibenzoazulene compounds as tumor necrosis

factor inhibitors and their preparation,

pharmaceutical compositions and use in the treatment

of inflammation

INVENTOR(S): Mercep, Mladen; Mesic, Milan; Pesic, Dijana;

Zupanovic, Zeljko; Hrvacic, Boska

PATENT ASSIGNEE(S): Pliva Farmaceutska Industrija, Dionicko Drustvo,

Croatia

SOURCE: U.S. Pat. Appl. Publ., 23pp., Cont.-in-part of Appl.

No. PCT/HR2001/00027.

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20030153750	A1 B2	20030814	US 2002-298217	
HR 2000000310		20020228	HR 2000-310 WO 2001-HR27	20000517 20010516
W: AE, AG, CR, CU, HR, HU, LT, LU, RU, SD,	AL, AM, AT CZ, DE, DK ID, IL, IN LV, MA, MD	, AU, AZ, , DM, DZ, , IS, JP, , MG, MK,	BA, BB, BG, BR, BY, EC, EE, ES, FI, GB, KE, KG, KP, KR, KZ, MN, MW, MX, MZ, NO, TJ, TM, TR, TT, TZ,	BZ, CA, CH, CN, GD, GE, GH, GM, LC, LK, LR, LS, NZ, PL, PT, RO,
RW: GH, GM, DE, DK,	KE, LS, MW ES, FI, FR CG, CI, CM A1	, GB, GR, , GA, GN,	SL, SZ, TZ, UG, ZW, IE, IT, LU, MC, NL, GW, ML, MR, NE, SN, US 2005-90743 HR 2000-310	PT, SE, TR, BF, TD, TG 20050325
		T AVAILABL	WO 2001-HR27 US 2002-298217 JE IN LSUS DISPLAY FO	A2 20010516 A1 20021118

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMA
OTHER SOURCE(S): CASREACT 148:472014; MARPAT 148:472014
GI

AB The invention relates to the dibenzoazulene compds. of formula I as well as to their pharmaceutical prepns. for the inhibition of tumor necrosis factor alpha (TNF-q) and interleukine 1 (IL-I) in mammal at all diseases and conditions where these mediators are excessively secreted. The compds. of the invention also demonstrate an analgetic action and can be used to relieve pain. Compds. of formula I wherein X is CR2, O, SOO-2 and NH and derivs; R1-R9 are independently H, halo, C1-7 alkyl, alkenyl, (hetero)aryl, OH, C1-7 alkoxy, etc.; R10 is C2-15 alkyl, C2-15 alkenyl, C2-15 alkynyl, (hetero)aryl, C1-15 haloalkyl, etc.; and their pharmaceutically acceptable salts and solvates thereof, are claimed.

^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Example compound II.HCl was prepared by O-alkylation of 3-(8-oxa-1-thiadibenzo[e,h]azulene)methanol with 3-dimethylaminopropyl

 $3-(6-0xa^2)$ -thractionizere/injazurene/methanol with 3-dimethyrianthopropy chloride. All the invention compds. were evaluated for their TNF- α inhibitory activity (some data given).

IT 1019856-26-8P 1019856-27-9P 1019856-28-0P 1019856-29-1P 1019856-40-6P 1019856-41-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)
(drug candidate; preparation of thienodibenzoazulene compds. as TNF inhibitors useful in the treatment of inflammation)

RN 1019856-26-8 CAPLUS
CN Methanone, 12-113-(dimethylamino)prop

Methanone, [2-[[3-(dimethylamino)propoxy]methyl]-8H-dibenzo[b,f]thieno[3,2-d]azepin-8-yl]phenyl- (CA INDEX NAME)

RN 1019856-27-9 CAPLUS

CN Methanone, [2-[[2-(dimethylamino)ethoxy]methyl]-8H-dibenzo[b,f]thieno[2,3-d]azepin-8-yl]phenyl- (CA INDEX NAME)

RN 1019856-28-0 CAPLUS

CN 1-Propanamine, 3-(8H-dibenzo[b,f]thieno[2,3-d]azepin-2-ylmethoxy)-N,N-dimethyl- (CA INDEX NAME)

Me2N- (CH2)3-0-CH2

RN 1019856-29-1 CAPLUS

CN Ethanamine, 2-(8H-dibenzo[b,f]thieno[2,3-d]azepin-2-ylmethoxy)-N,N-dimethyl- (CA INDEX NAME)

Me2N-CH2-CH2-O-CH2

RN 1019856-40-6 CAPLUS

CN 1-Propanamine, N,N-dimethyl-3-[[8-(phenylmethyl)-8H-dibenzo[b,f]thieno[2,3-d]azepin-2-yl]methoxy]- (CA INDEX NAME)

Me2N- (CH2)3-0-CH2

RN 1019856-41-7 CAPLUS

CN Ethanamine, N,N-dimethyl-2-[[8-(phenylmethyl)-8H-dibenzo[b,f]thieno[3,2-d]azepin-2-yl]methoxy]- (CA INDEX NAME)

Me2N-CH2-CH2-O-CH2

II 1019856-95-3P 1019856-61-1P 1019856-62-2P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of thienodibenzoazulene compds. as TNF inhibitors useful in the treatment of inflammation)

RN 1019856-55-3 CAPLUS

CN 8H-Dibenzo[b,f]thieno[3,2-d]azepine-2-methanol, 8-(phenylmethyl)- (CA INDEX NAME)

RN 1019856-61-1 CAPLUS

CN Methanone, [2-(hydroxymethyl)-8H-dibenzo[b,f]thieno[2,3-d]azepin-8yl]phenyl- (CA INDEX NAME)

RN 1019856-62-2 CAPLUS

CN 8H-Dibenzo[b,f]thieno[3,2-d]azepine-2-methanol (CA INDEX NAME)

IT 1019856-84-8 1019856-89-3 1019856-90-6 RL: RCT (Reactant); RACT (Reactant or reagent)

(starting material; preparation of thienodibenzoazulene compds. as TNF inhibitors useful in the treatment of inflammation)

RN 1019856-84-8 CAPLUS

CN 8H-Dibenzo[b,f]thieno[3,2-d]azepine-2-carboxylic acid, 8-(phenylmethyl)-, ethyl ester (CA INDEX NAME)

RN 1019856-89-3 CAPLUS

CN 8H-Dibenzo[b,f]thieno[2,3-d]azepine-2-carboxylic acid, 8-benzoyl-, ethyl ester (CA INDEX NAME)

RN 1019856-90-6 CAPLUS CN 8H-Dibenzo[0,f]thieno[2,3-d]azepine-2-carboxylic acid, ethyl ester (CA INDEX NAME)

L28 ANSWER 19 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:381058 CAPLUS

DOCUMENT NUMBER: 148:394352

TITLE: HMG CoA reductase inhibitor combination for modulation

of neurogenesis

INVENTOR(S): Barlow, Carrolee; Carter, Todd A.; Morse, Andrew; Treuner, Kai; Lorrain, Kvm I.; Redwine, Jeff;

Hoffmaster, Christine PATENT ASSIGNEE(S): Braincells, Inc., USA

PCT Int. Appl., 141pp. SOURCE: CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC NUM COUNTY PA

WHILL	ACC.	NOPL.	COOMT:	
ATENT	INFO	RMATI	ON:	
PA	ATENT	NO.		

PA:	TENT :	NO.					DATE			APPL	ICAT		DATE				
						-											
WO	2008	A2		2008	0327		WO 2	007-		20070920							
WO	2008036846			A3	2008	1113											
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		CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DO,	DZ,	EC,	EE,	EG,	ES,	FI,
		GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,
		KM,	KN,	KP,	KR,	ΚZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,	ME,
		MG,	MK,	MN,	MW,	MX,	MY,	ΜZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,
		PT,	RO,	RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	TJ,	TM,	TN,
		TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VC,	VN,	ZA,	ZM,	zw				
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,
		IS,	IT,	LT,	LU,	LV,	MC,	MT,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,
		ΒJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,
		GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,
		BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM,	ΑP,	EA,	EP,	OA					
AU	2007	2997:	26		A1		2008	0327		AU 2	007-		20070920				
CA	2664	421			A1		2008	0327	CA 2007-2664421						2	0070	920
US	2008	0103	105		A1		2008	0501		US 2	007-	8587	90		2	0070	920
EP	2076	288			A2		2009	0708		EP 2	007-	8429	12		2	0070	920
	R:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,
		IS,	IT,	LI,	LT,	LU,	LV,	MC,	MT,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,
		AL,	BA,	HR,	MK,	RS											
PRIORITY APPLN. INFO.: US 2006-82											8267	10P	1	P 2	0060	922	

WO 2007-US79079 W 20070920 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

The instant disclosure describes methods of treating diseases and conditions of the central and peripheral nervous system including by stimulating or increasing neurogenesis, neuroproliferation, and/or neurodifferentiation. The disclosure includes compns. and methods based on use of an HMGCR modulating agent, optionally in combination with one or more other neurogenic agents, to stimulate or increase a neurogenic response and/or to treat disease. Atorvastatin combined with folic acid synergistically enhanced differentiation of human neural stem cells in

IT 676596-65-9, 1-Azakenpaullone 1015242-98-4

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (HMG-CoA reductase inhibitor combination for modulation of

neurogenesis)

676596-65-9 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-bromo-7,12-dihydro- (CA INDEX NAME)

RN 1015242-98-4 CAPLUS

CN IH-Pyrrole-1-heptanoic acid, 2-(4-fluoropheny1)-6,8-dihydroxy-5-(1-methylethyl)-3-phenyl-4-[(phenylamino)carboxyl]-, (6R, 88)-, mixt. with 9-bromo-7,12-dihydropyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)one (CA INDEX NAME)

CM 1

CRN 676596-65-9 CMF C15 H10 Br N3 O

CM 2

CRN 134523-00-5 CMF C33 H35 F N2 O5

Absolute stereochemistry.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L28 ANSWER 20 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:285086 CAPLUS

DOCUMENT NUMBER: 148:347284

TITLE: Prediction of an agent's or agents' activity across

different cells and tissue types
INVENTOR(S): Theodorescu, Dan; Lee, Jae Kyun

PATENT ASSIGNEE(S): USA

SOURCE: PCT Int. Appl., 124pp.

SOURCE: PCT Int. Appl. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: 1

						KIND DATE							DATE						
	WO 2008027912 WO 2008027912					A2 20080306			0306				20070828						
		W: AE, AG, AL,		AL.	AM.	AT.	AU.	AZ.	BA.	BB.	BG.	BH.	BR.	BW.	BY.	BZ.	CA.		
								CZ,											
								GT,											
								LA,											
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		RW:						CZ,							GB.	GR.	HU.	IE.	
								MC,											
								GA,											
								MZ,											
	IIS	2008				MD, RU, TJ, TM,								20070828					
	EP	2062	181			A2		2009	0527		EP 2	007-	8414	94		2	0070	828	
								CZ,											
								LV,											
						MK,													
PRIO	RIT	APP									US 2	006-	8406	44P	1	P 2	0060	828	
											US 2	006-	8408	34P	P 20061122				
											WO 2	007-	US77	022	W 20070828				
AB	The	pre	sent	inv	enti	on r	elat	es t	o a i										

AB The present invention relates to a novel algorithm that uses mol. profile signatures to extrapolate the physiol. processes of one type of cell set (e.g., cell line, tissue, normal or diseased) to predict the activity of an agent or agents against another type of cell set that has never been exposed to the agent in question (drug efficacy prediction). The novel algorithm also allows one to predict the therapeutic response of a patient to a therapeutic regimen even though the patient (or patients) may have never been exposed to that agent before, thereby allowing for selecting a therapeutic agent or combination of agents that would best suit the patient (i.e., personalized medicine). The present invention also relates to methods of using the agents identified by the novel algorithm to treat a variety of diseases, including cancer.

IT 153079-85-7, NSC 672230

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(prediction of an agent's or agents' activity across different cells and tissue types for treatment of diseases such as cancer)

RN 153079-85-7 CAPLUS

CN Indolo[3,2-d][1,2,4]triazolo[4,3-a][1]benzazepine, 9,14-dihydro-6-methyl-

(CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L28 ANSWER 21 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:1177815 CAPLUS

DOCUMENT NUMBER: 147:464593

TITLE: Culture of non-embryonic multipotent progenitor cells

at high cell density in the presence of a GSK-3 inhibitor

INVENTOR(S): Mays, Robert W.

PATENT ASSIGNEE(S): Athersys, Inc., USA SOURCE: PCT Int. Appl., 65 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.																		
WO 2007117262					A2 20071018					006-	20060731							
WO	2007	1172	62		A3		2008	0110										
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
		GE,	GH,	GM,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,	KP,	
		KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	ME,	MG,	MK,	
		MN,	MW,	MX,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,	
		RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	
		UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW									
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,	
		IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	BJ,	
		CF.	CG,	CI,	CM,	GA,	GN,	GO,	GW,	ML,	MR.	NE.	SN,	TD,	TG,	BW,	GH,	
		GM.	KE.	LS.	MW.	MZ.	NA.	SD,	SL,	SZ.	TZ.	UG.	ZM.	ZW.	AM.	AZ.	BY,	
		KG.	KZ.	MD.	RU.	TJ.	TM,	AP.	EA.	EP.	OA							
US	2008								US 2008-996882						20080125			
RITY	APP	LN.	INFO	. :						US 2	005-	7038	23P	1	P 2	0050	729	
										WO 2	006-	IS29.	547	1	W 2	0060	731	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 147:464593

AB The present invention is directed to the culture of mammalian non-embryonic stem cells (i.e., multipotent adult progenitor cells), that can differentiate into cell types of more than one embryonic lineage, at high densities in culture under conditions that maintain differentiation capacity during expansion; more particularly, culturing non-embryonic stem cells at high densities in the presence of a glycogen synthase kinase 3 inhibitor, such as 6-bromoindirubin-3'-oxime (BIO).

IT 676596-65-9, 1-Azakenpaullone

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(glycogen synthase kinase 3 inhibitor; culture of non-embryonic multipotent progenitor cells at high cell d. in presence of glycogen synthase kinase 3 inhibitor)

RN 676596-65-9 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-bromo-7,12-dihydro- (CA INDEX NAME)

PRI

L28 ANSWER 22 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:383636 CAPLUS

DOCUMENT NUMBER: 146:401967

TITLE: Preparation of tetracyclic inhibitors of Janus kinases

INVENTOR(S): Arvanitis, Argyrios G.; Rodgers, James D.; Combs, Andrew P.; Sparks, Richard B.; Robinson, Darius J.;

Fridman, Jordan S.; Vaddi, Krishna

Incyte Corporation, USA PATENT ASSIGNEE(S): PCT Int. Appl., 148pp.

SOURCE:

CODEN: PIXXD2 Patent English

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

		KIND DATE															
PATENT NO. WO 2007038215 W: AE, AG, AL, CN, CO, CR, GE, GH, GM, KR, KZ, LA, MM, MX, MY, RU, SC, SD, UA, UG, US, RW: AT, BE, BG, IS, IT, LT,					A1		2007	0405		WO 2	006-		20060921				
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,	KP,
		KR,	ΚZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,
		MW,	MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,
											SY,	ΤJ,	TM,	TN,	TR,	TT,	TZ,
	RW:																
								SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
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EP	CF, CG, C GM, KE, L KG, KZ, M CA 2621261 US 20070149506 EP 1926735 R: AT, BE, B IS, IT, L																
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						LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	AL,
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	2009																
	5806						2008			AR 2						0060	
	2009				AI		2009	0806		US 2						0090	
IORIT:	Y APP	LN.	TNEO	. :						US 2							
										US 2							
										US 2							
										WO 2	006-	US36	8/2		W 2	0060	921

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): CASREACT 146:401967; MARPAT 146:401967

GI

The invention is related to tetracyclic compds. I, II, and III [D1-D7 = AB independently CR1, N; E = O, S, SO, SO2, NH and derivs.; G = N, CH and derivs.; Q1, Q2 = independently H, NH and derivs.; W = -W1-W2-W3-W4; W1 = absent, O, S, NH and derivs., SO2, NHCONH and derivs., alkyl, etc.; W2 = absent, (un)substituted alk(en/yn)yl, (hetero)aryl, etc.; W3 = absent, :N, :NO, alkoxy, CONH and derivs., SONH and derivs., (un) substituted alk(en/yn)yl, etc.; W4 = H, CN, NH2 and derivs., (un)substituted cyclo/alkyl, heterocycloalkyl, etc.; provided that when D7 = N, E = O, S; and G = N, then W is other than H] and their pharmaceutically acceptable salts or prodrugs, that modulate, especially inhibit, the activity of Janus kinases. Thus, IV was prepared by a general procedure. Selected tetracyclic compds. I-III showed an IC50 of 10µM or less for the inhibition of JAK1 and/or JAK2, and/or JAK3 in an in vitro assay. Thus, I-III are useful in the treatment of diseases related to activity of Janus kinases including, for example, immune-related diseases, skin disorders, myeloid proliferative disorders, cancer, and other diseases.

IT 933762-71-1P 933765-14-1P 933766-77-9P 933767-61-4P 933767-64-7P 933767-67-0P 933768-22-0P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of tetracyclic inhibitors of Janus kinases) 933762-71-1 CAPLUS

RN

CN Cyclohexaneacetonitrile, 4-(3,8-dihydro-3-hydroxyimidazo[4,5d|dipyrido[2,3-b:4',3'-f|azepin-2-v1)- (CA INDEX NAME)

RN 933765-14-1 CAPLUS CN Imidazo[4.5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[3-(difluoromethyl)-5-methyl-1-(tetrahydro-2H-pyran-2-yl)-1H-pyrazol-4yl)-1,8-dihydro- (CA INDEX NAME)

RN 933766-77-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(ethylthio)phenyl]-1,8-dihydro-, 2,2,2-trifluoroacetate
(1:2) (CA INDEX NAME)

CM 1

CRN 933766-76-8 CMF C21 H15 C12 N5 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-61-4 CAPLUS

CN Phenol, 3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933767-64-7 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,6-dichloro-4-methoxyphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate
(1:2) (CA INDEX NAME)

CN

CM 1

CRN 933767-63-6 CMF C20 H13 C12 N5 O

OMe

CM 2

CRN 76-05-1 CMF C2 H F3 O2

F-C-CO2H

RN 933767-67-0 CAPLUS CN Imidazo[4,5-d]dipvri

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(1-methylethoxy)phenyl]-1,8-dihydro-,
2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-66-9

CMF C22 H17 C12 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933768-22-0 CAPLUS CN Imidazo[4,5-d]dipvr:

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3,5-dichloro-4-pyridinyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2)
(CA INDEX NAME)

CM 1

CRN 933762-77-7

CMF C18 H10 C12 N6

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10/565,702
    CM
          2
    CRN 76-05-1
    CMF C2 H F3 O2
F-C-CO2H
  F
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    933762-31-3P
                      933762-32-4P
                                       933762-33-5P
    933762-34-6P
                     933762-35-7P
                                       933762-36-8P
                      933762-38-0P
                                       933762-39-1P
     933762-37-9P
                                       933762-43-7P
     933762-41-5P
                      933762-42-6P
     933762-44-8P
                      933762-45-9P
                                       933762-46-0P
     933762-47-1P
                      933762-48-2P
                                       933762-49-3P
     933762-50-6P
                      933762-51-7P
                                       933762-52-8P
                     933762-54-0P
     933762-53-9P
                                       933762-55-1P
     933762-56-2P
                      933762-57-3P
                                       933762-58-4P
     933762-59-5P
                      933762-60-8P
                                       933762-61-9P
     933762-62-0P
                      933762-63-1P
                                       933762-64-2P
     933762-65-3P
                      933762-66-4P
                                       933762-67-5P
     933762-68-6P
                      933762-69-7P
                                       933762-70-0P
     933762-72-2P
                     933762-73-3P
                                       933762-74-4P
     933762-75-5P
                     933762-76-6P
                                       933762-77-7P
     933762-78-8P
                     933762-79-9P
                                       933762-80-2P
     933762-81-3P
                     933762-82-4P
                                       933762-83-5P
     933762-84-6P
                     933762-85-7P
                                       933762-86-8P
     933762-87-9P
                     933762-88-0P
                                       933762-89-1P
     933762-90-4P
                     933762-91-5P
                                       933762-92-6P
    933762-93-7P
                     933762-94-8P
                                       933762-95-9P
     933762-96-0P
                     933762-97-1P
                                       933762-98-2P
     933762-99-3P
                     933763-00-9P
                                       933763-01-0P
     933763-02-1P
                     933763-03-2P
                                       933763-04-3P
     933763-05-4P
                     933763-06-5P
                                       933763-07-6P
     933763-08-7P
                     933763-09-8P
                                       933763-10-1P
     933763-11-2P
                     933763-12-3P
                                       933763-13-4P
    933763-14-5P
                     933763-15-6P
                                       933763-16-7P
    933763-17-8P
                     933763-18-9P
                                       933763-19-0P
     933763-20-3P
                    933763-21-4P
                                       933763-22-5P
     933763-23-6P
                    933763-24-7P
                                       933763-25-8P
     933763-26-9P
                     933763-27-0P
                                       933763-29-2P
                     933763-32-7P
     933763-30-5P
                                       933763-33-8P
    933763-35-0P
                     933763-36-1P
                                       933763-38-3P
     933763-39-4P
                     933763-41-8P
                                       933763-42-9P
     933763-44-1P
                      933763-45-2P
                                       933763-47-4P
     933763-48-5P
                      933763-50-9P
                                       933763-51-0P
     933763-53-2P
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                      933763-54-3P
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                                       933763-59-8P
     933763-60-1P
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     933763-63-4P
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933763-70-3P

933763-73-6P

933763-71-4P

933763-74-7P

933763-69-0P

933763-72-5P

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933763-84-9P
                 933763-85-0P
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                                   933763-89-4P
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933763-90-7P
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933764-55-7P
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933764-58-0P
                 933764-59-1P
                                   933764-60-4P
933764-61-5P
                 933764-62-6P
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933764-64-8P
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933764-70-6P
                 933764-71-7P
                                   933764-72-8P
933764-73-9P
                 933764-74-0P
                                   933764-75-1P
933764-76-2P
                 933764-77-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
   (drug candidate; preparation of tetracyclic inhibitors of Janus kinases)
933762-31-3 CAPLUS
Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,
2-(1,1-dimethylethyl)-10-fluoro-3,8-dihydro- (CA INDEX NAME)
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RN 933762-32-4 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,

RN

CN

2-cyclopropy1-10-fluoro-3,8-dihydro- (CA INDEX NAME)

RN 933762-33-5 CAPLUS CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,
2-cyclohexyl-10-fluoro-3,8-dihydro- (CA INDEX NAME)

RN 933762-34-6 CAPLUS CN Imidazo[4,5-d]pyrid

Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,
10-fluoro-3,8-dihydro-2-(2-methylpropyl)- (CA INDEX NAME)

RN 933762-35-7 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine, 2-cyclopentyl-10-fluoro-3,8-dihydro- (CA INDEX NAME)

RN 933762-36-8 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine, 10-fluoro-3,8-dihydro-2-(tetrahydro-3-furany1)- (CA INDEX NAME)

RN 933762-37-9 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine, 2-(3-cyclohexen-1-yl)-10-fluoro-3,8-dihydro- (CA INDEX NAME)

RN 933762-38-0 CAPLUS

CN Cyclopropanecarboxylic acid, 2-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-yl)-, ethyl ester (CA INDEX NAME)

RN 933762-39-1 CAPLUS
CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,
2-bicyclo[2,2.1]hept-5-en-2-y1-10-fluoro-3,8-dihydro- (CA INDEX NAME)

RN 933762-41-5 CAPLUS
CN Cyclopropanemethano1, 2-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-y1)-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM

1

CRN 933762-40-4 CMF C18 H15 F N4 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933762-42-6 CAPLUS CN Imidazo[4,5-d]pvrid

N Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,
2-(1-ethylpentyl)-10-fluoro-3,8-dihydro- (CA INDEX NAME)

RN 933762-43-7 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine-2-butanenitrile, γ,γ -diethyl-10-fluoro-3,8-dihydro- (CA INDEX NAME)

RN 933762-44-8 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine, 2-cyclopentyl-10,11-difluoro-3,8-dihydro- (CA INDEX NAME)

RN 933762-45-9 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine, 2-(1-ethylpenty1)-10,11-difluoro-3,8-dihydro- (CA INDEX NAME)

RN 933762-46-0 CAPLUS

CN Cyclohexanepropanenitrile, 1-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-y1)- (CA INDEX NAME)

RN 933762-47-1 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine-2-butanenitrile, 10-fluoro-3,8-dihydro-γ,γ-dimethyl- (CA INDEX NAME)

RN 933762-48-2 CAPLUS CN Imidazo[4,5-d]pyrido

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,
2-(1-ethylpropyl)-10-fluoro-3,8-dihydro- (CA INDEX NAME)

RN 933762-49-3 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine, 10-fluoro-3,8-dihydro-2-[2-(methylthio)ethyl]- (CA INDEX NAME)

RN 933762-50-6 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine, 10-fluoro-3,8-dihydro-2-[2-(methylsulfinyl)ethyl]- (CA INDEX NAME)

RN 933762-51-7 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine, 10-fluoro-3,8-dihydro-2-[(phenylmethoxy)methy1]- (CA INDEX NAME)

Ph-CH2-0-CH2

RN 933762-52-8 CAPLUS

CN Cyclohexanemethanol, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-yl)-, cis- (CA INDEX NAME)

Relative stereochemistry.

RN 933762-53-9 CAPLUS

CN Cyclohexanemethanol, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-y1)-, trans- (CA INDEX NAME)

Relative stereochemistry.

RN 933762-54-0 CAPLUS

CN Cyclohexanol, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-yl)-, cis- (CA INDEX NAME)

Relative stereochemistry.

RN 933762-55-1 CAPLUS

CN Cyclohexanol, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-y1)-, trans- (CA INDEX NAME)

Relative stereochemistry.

RN 933762-56-2 CAPLUS

CN Cyclohexaneacetonitrile, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-yl)-, trans- (CA INDEX NAME)

Relative stereochemistry.

RN 933762-57-3 CAPLUS

CN Cyclohexaneacetamide, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-y1)- (CA INDEX NAME)

RN 933762-58-4 CAPLUS
Caption 1-Piperidinecarboxylic acid, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-yl)-, 1,1-dimethylethyl ester (CA INDEX NAME)

RN 933762-59-5 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine, 10-fluoro-3,8-dihydro-2-(4-piperidiny1)- (CA INDEX NAME)

RN 933762-60-8 CAPLUS

CN 1-Piperidinepropanenitrile, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-yl)-β-oxo- (CA INDEX NAME)

RN 933762-61-9 CAPLUS

CN Ethanone, 1-[4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-yl)-1-piperidinyl]- (CA INDEX NAME)

933762-62-0 CAPLUS RN CN

Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,
10-fluoro-3,8-dihydro-2-[1-(methylsulfonyl)-4-piperidinyl]- (CA INDEX NAME)

RN 933762-63-1 CAPLUS

1-Piperidineacetonitrile, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-yl)- (CA INDEX NAME) CN

RN 933762-64-2 CAPLUS
CN 1-Piperidineacetic acid, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b)[1]benzazepin-2-y1)-, ethyl ester (CA INDEX NAME)

- RN 933762-65-3 CAPLUS
- CN 1-Piperidineethanol, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-y1)- (CA INDEX NAME)

- RN 933762-66-4 CAPLUS
- CN 1-Piperidinepropanol, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-yl)- (CA INDEX NAME)

HO- (CH2)3

- RN 933762-67-5 CAPLUS
- CN 1-Piperidinebutanenitrile, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-yl)- (CA INDEX NAME)

RN 933762-68-6 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine-2-butanenitrile, γ, γ -diethyl-1,8-dihydro- (CA INDEX NAME)

RN 933762-69-7 CAPLUS
CN Cyclohexameethanol, 4-(3,8-dihydro-3-hydroxyimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)- (CA INDEX NAME)

- RN 933762-70-0 CAPLUS
- CN Cyclohexanemethanol, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)- (CA INDEX NAME)

- RN 933762-72-2 CAPLUS
- CN Cyclohexaneacetonitrile, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

- RN 933762-73-3 CAPLUS
- CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine-2-propanenitrile, 1,8-dihydro-β,β-dimethyl- (CA INDEX NAME)

RN 933762-74-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine-2-propanenitrile, β,β-diethyl-1,8-dihydro- (CA INDEX NAME)

RN 933762-75-5 CAPLUS

CN Cyclopentaneacetonitrile, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933762-76-6 CAPLUS

CN Cyclopentanecarbonitrile, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)- (CA INDEX NAME)

RN 933762-77-7 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3,5-dichloro-4-pyridinyl)-1,8-dihydro- (CA INDEX NAME)

RN 933762-78-8 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3,5-dichloro-4-pyridinyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:3)
(CA INDEX NAME)

CM 1

CRN 933762-77-7 CMF C18 H10 C12 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933762-79-9 CAPLUS CN Imidazo[4,5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,6-dichlorophenyl)-1,8-dihydro-, hydrochloride (1:2) (CA INDEX NAME)

● 2 HC1

RN 933762-80-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,6-dimethylphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933762-81-3 CAPLUS CN

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,6-dimethylphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

1 CRN 933762-80-2 CMF C21 H17 N5

CM

CRN 76-05-1 CMF C2 H F3 O2

933762-82-4 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2-fluoro-6-methoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

CN

RN 933762-83-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',2'-f]azepine,
 2-(2-fluoro-6-methoxyphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2)
(CA INDEX NAME)

CM 1

CRN 933762-82-4 CMF C20 H14 F N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933762-84-6 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(6-chloro-2-fluoro-3-methylphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933762-85-7 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[2-fluoro-6-(trifluoromethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933762-86-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2-chloro-6-fluoro-3-methylphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933762-87-9 CAPLUS

- RN 933762-88-0 CAPLUS
- CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2-chloro-6-fluorophenyl)-1,8-dihydro- (CA INDEX NAME)

- RN 933762-89-1 CAPLUS
- CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[2-chloro-5-(trifluoromethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933762-90-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,6-difluorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933762-91-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,5-dichlorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933762-92-6 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

2-(3,5-dibromo-4-pyridiny1)-1,8-dihydro- (CA INDEX NAME)

RN 933762-93-7 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2-bromophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933762-94-8 CAPLUS CN Imidazo[4,5-d]dipvr

In Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(2-methylphenyl)- (CA INDEX NAME)

RN 933762-95-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

2-(2-chlorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933762-96-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2-ethylphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933762-97-1 CAPLUS CN Imidazo[4,5-d]dipvr

N Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,5-dimethylphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933762-98-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2-chloro-3-(trifluoromethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933762-99-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[2,5-bis(trifluoromethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933763-00-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(3-chloro-2,6-difluorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-01-0 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)

RN 933763-02-1 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,3-dichlorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-03-2 CAPLUS
CN Propanenitrile, 3-[[4-(1,8-dihydroimidazo[4,5-d]dipyrido[3,4-b:3',2'-

f]azepin-2-y1)-3-methylphenyl]ethylamino]- (CA INDEX NAME)

RN 933763-04-3 CAPLUS CN Imidazo[4,5-d]dipyric

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2-chloro-3,6-difluorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-05-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3-bromo-4-pyridinyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-06-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(5-bromo-2,3-dimethoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-07-6 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[3-chloro-2-fluoro-5-(trifluoromethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933763-08-7 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(3-chloro-4-pyridinyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-09-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,3-dimethylphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-10-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2-fluoro-3-(trifluoromethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933763-11-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[3,4-b:4',3'-f]azepine, 2-(3-fluoro-2-methylphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-12-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2-fluorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-13-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(5-bromo-2-methoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-14-5 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2-fluoro-5-(trifluoromethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933763-15-6 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2-fluoro-3-methoxypheny1)-1,8-dihydro- (CA INDEX NAME)

RN 933763-16-7 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2-fluoro-5-methoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-17-8 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,3-difluorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-18-9 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(4-quinoliny1)- (CA INDEX NAME)

RN 933763-19-0 CAPLUS CN Imidazo[4,5-d]didprido[2,3-b:4',3'-f]azepine, 2-(5-fluoro-2-methoxypheny1)-1,8-dihydro- (CA INDEX NAME)

RN 933763-20-3 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(5-bromo-2-fluoropheny1)-1,8-dihydro- (CA INDEX NAME)

RN 933763-21-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,5-dimethoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

- RN 933763-22-5 CAPLUS
- CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,5-difluorophenyl)-1,8-dihydro- (CA INDEX NAME)

- RN 933763-23-6 CAPLUS
- CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(3,5-dimethyl-lH-pyrrol-2-yl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-24-7 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,6-dimethoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-25-8 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(4-methyl-1H-imidazol-5-yl)- (CA INDEX NAME)

RN 933763-26-9 CAPLUS
CN Phenol, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)3,5-dimethoxy- (CA INDEX NAME)

RN 933763-27-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(1,1,2,2,2-pentafluoroethyl)- (CA INDEX NAME)

RN 933763-29-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(5-bromo-1,3-benzodioxol-4-yl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-30-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(5-bromo-1,3-benzodioxol-4-yl)-1,8-dihydro-, 2,2,2-trifluoroacetate

(1:2) (CA INDEX NAME)

CM 1

CRN 933763-29-2 CMF C20 H12 Br N5 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-32-7 CAPLUS CN

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine-2-butanenitrile, 1,8-dihydro-γ-methyl-γ-phenyl- (CA INDEX NAME)

RN 933763-33-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine-2-butanenitrile,

1,8-dihydro- γ -methyl- γ -phenyl-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933763-32-7

CMF C24 H20 N6

CM

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-35-0 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, CN 2-[2-fluoro-4-(trifluoromethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933763-36-1 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[2-fluoro-4-(trifluoromethyl)phenyl]-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME) CM 1 CRN 933763-35-0 CMF C20 H11 F4 N5 NH N H CM 2 CRN 76-05-1 CMF C2 H F3 O2 F-C-C02H Ė RN 933763-38-3 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

2-(cyclohexylmethyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-39-4 CAPLUS

Imidazol4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(cyclohexylmethy1)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CN

CRN 933763-38-3 CMF C20 H21 N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-41-8 CAPLUS

CN Phenol, 3-bromo-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-6-methoxy- (CA INDEX NAME)

RN 933763-42-9 CAPLUS

CN Phenol, 3-bromo-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-6-methoxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933763-41-8 CMF C20 H14 Br N5 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-44-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3-fluoro-4-pyridinyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-45-2 CAPLUS CN Imidazo[4,5-d]dipvr:

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3-fluoro-4-pyridiny1)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:3) (CA
INDEX NAME)

CM 1

CRN 933763-44-1 CMF C18 H11 F N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-47-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[1,1'-bipheny1]-2-y1-1,8-dihydro- (CA INDEX NAME)

RN 933763-48-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 2-[1,1'-biphenyl]-2-yl-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2) (CA
INDEX NAME)

CM 1

CRN 933763-47-4 CMF C25 H17 N5

CM 2

CRN 76-05-1

CMF C2 H F3 O2

RN 933763-50-9 CAPLUS
CN Benzoic acid, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2y1)-, methyl ester (CA INDEX NAME)

RN 933763-51-0 CAPLUS

CN Benzoic acid, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, methyl ester 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933763-50-9 CMF C21 H15 N5 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-53-2 CAPLUS CN Imidazo[4,5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2-(ethylthio)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933763-54-3 CAPLUS

CM 1

CRN 933763-53-2 CMF C21 H17 N5 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

CN

RN 933763-56-5 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(1H-pyrrol-2-yl)- (CA INDEX NAME)

RN 933763-57-6 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(1H-pyrro1-2-yl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CN

CM 1

CRN 933763-56-5 CMF C17 H12 N6

CM

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-58-7 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-[4-[(trifluoromethyl)thio]phenyl]- (CA INDEX NAME)

RN 933763-59-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-[4-[(trifluoromethyl)thio]phenyl]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933763-58-7 CMF C20 H12 F3 N5 S

CM

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-60-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(2-naphthalenyl)- (CA INDEX NAME)

RN 933763-61-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-(2-naphthalenyl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933763-60-1

CMF C23 H15 N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-62-3 CAPLUS

CN Carbamic acid, N-[1-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-2-phenylethyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

0

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RN
     933763-63-4 CAPLUS
CN
   Carbamic acid, N-[1-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-
     f]azepin-2-y1)-2-phenylethy1]-, 1,1-dimethylethy1 ester 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)
     CM 1
     CRN 933763-62-3
     CMF C26 H26 N6 O2
t-BuO-C
 Ph-CH2-CH
     CM
           2
     CRN 76-05-1
     CMF C2 H F3 O2
F-C-C02H
  Ė
RN
   933763-64-5 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
     1,8-dihydro-2-(2-pyrrolidinyl)- (CA INDEX NAME)
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RN 933763-65-6 CAPLUS

CM 1

CRN 933763-64-5 CMF C17 H16 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-66-7 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2-chloro-6-methoxy-3-quinoliny1)-1,8-dihydro- (CA INDEX NAME)

RN 933763-67-8 CAPLUS

CM 1

CRN 933763-66-7 CMF C23 H15 C1 N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-68-9 CAPLUS

Ethanone, 1-[(25)-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-1-pyrrolidiny1]- (CA INDEX NAME)

Absolute stereochemistry.

RN 933763-69-0 CAPLUS

CN Ethanone, 1-[(2S)-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-1-pyrrolidinyl]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933763-68-9 CMF C19 H18 N6 O

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-70-3 CAPLUS

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RN 933763-71-4 CAPLUS

CN Imidazo|4,5-d|dipyrido|2,3-b:4',3'-f|azepine,
1,8-dihydro-2-(2-thiazoly1)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933763-70-3 CMF C16 H10 N6 S

CM 2

RN 933763-72-5 CAPLUS

CN Ethanone, 1-[2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-4-hydroxy-1-pyrrolidinyl]- (CA INDEX NAME)

RN 933763-73-6 CAPLUS

CN Ethanone, 1-[2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2yl)-4-hydroxy-1-pyrrolidinyl]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933763-72-5 CMF C19 H18 N6 O2

CM

RN 933763-74-7 CAPLUS

CN Acetamide, N-[1-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2yl)ethyl]- (CA INDEX NAME)

NHAc

Me-CH

RN 933763-75-8 CAPLUS

CN Acetamide, N-[1-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)ethyl]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933763-74-7 CMF C17 H16 N6 O

NHAc

CM 2

RN 933763-76-9 CAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-4-hydroxy-, 1,1-dimethylethyl ester (CA INDEX NAME)

RN 933763-77-0 CAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b;4',3'-f]azepin-2-yl)-4-hydroxy-, 1,1-dimethylethyl ester 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933763-76-9 CMF C22 H24 N6 O3

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-78-1 CAPLUS
CN Acetamide, N-[4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)phenyl]- (CA INDEX NAME)

RN 933763-79-2 CAPLUS

CN Acetamide, N-[4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)phenyl]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933763-78-1 CMF C21 H16 N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-80-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[4-(difluoromethoxy)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933763-81-6 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[4-(difluoromethoxy)phenyl]-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2)
(CA INDEX NAME)

CM 1

CRN 933763-80-5 CMF C20 H13 F2 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-82-7 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(6-chloro-3-pyridiny1)-1,8-dihydro- (CA INDEX NAME)

RN 933763-83-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 2-(6-chloro-3-pyridinyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2) (CA
 INDEX NAME)

CM 1

CRN 933763-82-7

CMF C18 H11 C1 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-84-9 CAPLUS

CN 3-Pyridinecarbonitrile, 6-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-2-(methylthio)- (CA INDEX NAME)

RN 933763-85-0 CAPLUS CN 3-Pyridinecarbonitr

3-Pyridinecarbonitrile, 6-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-2-(methylthio)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933763-84-9 CMF C20 H13 N7 S

CM 2

RN 933763-86-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 1,8-dihydro-2-(6-methoxy-3-pyridiny1)- (CA INDEX NAME)

RN 933763-87-2 CAPLUS CN Imidazo[4,5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(6-methoxy-3-pyridiny1)-, 2,2,2-trifluoroacetate (1:3) (CA
INDEX NAME)

CM 1

CRN 933763-86-1

CMF C19 H14 N6 O

OMe

CM 2

RN 933763-88-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(6-bromo-3-pyridinyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-89-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(6-brono3-pyridiny1)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:3) (CA
INDEX NAME)

CM 1

CRN 933763-88-3 CMF C18 H11 Br N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-90-7 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(6-bromo-2-pyridinyl)-1,8-dihydro- (CA INDEX NAME)

RN 933763-91-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(6-bromo-2-pyridiny1)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)

CM 1

CRN 933763-90-7 CMF C18 H11 Br N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-92-9 CAPLUS CN Imidazo[4,5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(1H-imidazo1-5-y1)- (CA INDEX NAME)

RN 933763-93-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-(1H-imidazo1-5-y1)-, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)

CM 1

CRN 933763-92-9

CMF C16 H11 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-94-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(3-methoxyphenyl)- (CA INDEX NAME)

RN 933763-95-2 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(3-methoxyphenyl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CN

CRN 933763-94-1 CMF C20 H15 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-96-3 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-(4-methoxypheny1)- (CA INDEX NAME)

RN 933763-97-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

1,8-dihydro-2-(4-methoxypheny1)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933763-96-3

CMF C20 H15 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933763-98-5 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-[2-(methylthio)ethyl]- (CA INDEX NAME)

RN 933763-99-6 CAPLUS

CM 1

CRN 933763-98-5 CMF C16 H15 N5 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-00-2 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(4-piperidinyl)- (CA INDEX NAME)

RN 933764-01-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-(4-piperidinyl)-, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)

CM 1

CRN 933764-00-2 CMF C18 H18 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2



RN 933764-02-4 CAPLUS

CN 1-Piperidinepropanenitrile, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-β-oxo- (CA INDEX NAME)

933764-03-5 CAPLUS RN

JOINTH TO THE MATTER THE PROPERTY OF THE PROP

CM

CN

CRN 933764-02-4 CMF C21 H19 N7 O

CM 2

933764-04-6 CAPLUS RN

CN 1-Piperidinepropanenitrile, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3b:4',3'-f]azepin-2-y1)-β-oxo- (CA INDEX NAME)

933764-05-7 CAPLUS RN

CN 1-Piperidine propanenitrile, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- β -oxo-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933764-04-6

CMF C21 H19 N7 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-06-8 CAPLUS
CN 1-Piperidinepropanenitrile, 4-[(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)methyl]-β-oxo- (CA INDEX NAME)

RN 933764-07-9 CAPLUS

CN 1-Piperidinepropanenitrile, 3-[(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)methyl]-\(\beta\)-oxo- (CA INDEX NAME)

RN

Ethanone, 1-[4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-1-piperidinyl]-2,2,2-trifluoro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)CN

CM

CRN 933764-08-0 CMF C20 H17 F3 N6 O

2 CM

RN 933764-10-4 CAPLUS

CN Ethanone, 1-[3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-1-piperidinyl]-2,2,2-trifluoro- (CA INDEX NAME)

RN 933764-11-5 CAPLUS

CN Ethanone, 1-[3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-1-piperidinyl]-2,2,2-trifluoro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933764-10-4 CMF C20 H17 F3 N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-12-6 CAPLUS

CN Ethanone, 1-[4-[(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)methyl]-1-piperidinyl]-2,2,2-trifluoro (CA INDEX NAME)

RN 933764-13-7 CAPLUS

CN Ethanone, 1-[4-[(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)methyl]-1-piperidinyl]-2,2,2-trifluoro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933764-12-6 CMF C21 H19 F3 N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

F-C-CO₂H

RN 933764-14-8 CAPLUS

CN Ethanone, 1-[3-[(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)methyl]-1-piperidinyl]-2,2,2-trifluoro- (CA INDEX NAME)

RN 933764-15-9 CAPLUS

CN Ethanone, 1-[3-[(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)methyl]-1-piperidinyl]-2,2,2-trifluoro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933764-14-8 CMF C21 H19 F3 N6 O

CM :

RN 933764-16-0 CAPLUS

CN Ethanone, 1-[4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-1-piperidinyl]- (CA INDEX NAME)

RN 933764-17-1 CAPLUS

CN Ethanone, 1-[4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-1-piperidinyl]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933764-16-0 CMF C20 H20 N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-18-2 CAPLUS

CN 1-Piperidinecarboxaldehyde, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933764-19-3 CAPLUS

CN 1-Piperidinecarboxaldehyde, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933764-18-2 CMF C19 H18 N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-20-6 CAPLUS

CN Ethanone, 1-[4-[(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)methyl]-1-piperidinyl]- (CA INDEX NAME)

RN 933764-21-7 CAPLUS

CN Ethanone, 1-[3-[(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)methyl]-1-piperidinyl]- (CA INDEX NAME)

RN 933764-22-8 CAPLUS CN Ethanone, 1-[3-[(1,8-dihydroimi

Ethanone, 1-[3-([1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)methyl]-1-piperidinyl]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933764-21-7 CMF C21 H22 N6 O

CM 2

RN 933764-23-9 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(1-methyl-3-piperidinyl)- (CA INDEX NAME)

RN 933764-24-0 CAPLUS CN Imidazo[4,5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(1-methyl-3-piperidinyl)-, 2,2,2-trifluoroacetate (1:3) (CA
INDEX NAME)

CM 1

CRN 933764-23-9 CMF C19 H20 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-25-1 CAPLUS

DN Benzonitrile, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933764-26-2 CAPLUS

CN Benzonitrile, 4-(3,8-dihydro-3-hydroxyimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)- (CA INDEX NAME)

RN 933764-27-3 CAPLUS

CN Benzonitrile, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933764-28-4 CAPLUS
CN Benzonitrile, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2y1)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933764-27-3 CMF C20 H12 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

F-C-CO2H

RN 933764-29-5 CAPLUS

 $\texttt{CN} \quad \texttt{Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-(3-pyridinyl)-1}$

(CA INDEX NAME)

RN 933764-30-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 3,8-dihydro-3-hydroxy-2-(3-pyridinyl)- (CA INDEX NAME)

RN 933764-31-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
3,8-dihydro-3-hydroxy-2-(2-pyridinyl)- (CA INDEX NAME)

RN 933764-32-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-(4-pyridiny1)-

(CA INDEX NAME)

RN 933764-33-1 CAPLUS CN

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 3,8-dihydro-3-hydroxy-2-(4-pyridinyl)- (CA INDEX NAME)

RN 933764-34-2 CAPLUS Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, CN 1,8-dihydro-2-(3-piperidinyl)- (CA INDEX NAME)

933764-35-3 CAPLUS RN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

1,8-dihydro-2-(3-piperidiny1)-, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)

CM 1

CRN 933764-34-2

CMF C18 H18 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

933764-36-4 CAPLUS RN

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

1,8-dihydro-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

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RN
    933764-37-5 CAPLUS
CN
    Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
     1,8-dihydro-2-[4-(trifluoromethyl)phenyl]-, 2,2,2-trifluoroacetate (1:2)
     (CA INDEX NAME)
    CM 1
    CRN 933764-36-4
    CMF C20 H12 F3 N5
         NH
        N
H
    CM
        2
    CRN 76-05-1
    CMF C2 H F3 O2
F-C-C02H
  Ė
RN
    933764-38-6 CAPLUS
CN
   Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
     1,8-dihydro-2-[6-(trifluoromethy1)-3-pyridiny1]- (CA INDEX NAME)
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RN 933764-39-7 CAPLUS CN

933/04-33-7 (Artios Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-[6-(trifluoromethyl)-3-pyridinyl]-, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)

CM

CRN 933764-38-6 CMF C19 H11 F3 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-40-0 CAPLUS

RN 933764-41-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 1,8-dihydro-2-[3-(trifluoromethyl)phenyl]-, 2,2,2-trifluoroacetate (1:2)
(CA INDEX NAME)

CM

CRN 933764-40-0 CMF C20 H12 F3 N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-42-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(3,5-dimethyl-4-isoxazolyl)-3,8-dihydro-3-hydroxy- (CA INDEX NAME)

RN 933764-43-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-[4-(methylthio)phenyl]- (CA INDEX NAME)

RN 933764-44-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-[4-(methylthio)phenyl]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

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CRN 933764-43-3
CMF C20 H15 N5 S
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CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-46-6 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

3,8-dihydro-3-hydroxy-2-[4-(methylthio)phenyl]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933764-45-5 CMF C20 H15 N5 O S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-47-7 CAPLUS

RN 933764-48-8 CAPLUS

CN Imidazo (4,5-d]dipyrido [2,3-b:4',3'-f]azepine, 1,8-dihydro-2-[4-(methylsulfonyl)phenyl]-, 2,2,2-trifluoroacetate (1:2)

(CA INDEX NAME)

CM 1

CRN 933764-47-7

CMF C20 H15 N5 O2 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

F-C-CO2H

RN 933764-49-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(1H-imidazol-2-yl)- (CA INDEX NAME)

RN 933764-50-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-(1H-imidazol-2-yl)-, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)

CM 1

CRN 933764-49-9 CMF C16 H11 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-51-3 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(1-methyl-1H-imidazol-2-yl)- (CA INDEX NAME)

RN 933764-52-4 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(1-methyl-1H-imidazo1-2-y1)-, 2,2,2-trifluoroacetate (1:3)
(CA INDEX NAME)

CM 1

CN

CRN 933764-51-3 CMF C17 H13 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-53-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-phenyl- (CA

INDEX NAME)

RN 933764-54-6 CAPLUS

CN Imidazo [4,5-d]dipyrido [2,3-b:4',3'-f]azepine, 1,8-dihydro-2-phenyl-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933764-53-5 CMF C19 H13 N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-55-7 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

3,8-dihydro-3-hydroxy-2-phenyl- (CA INDEX NAME)

RN 933764-56-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 3,8-dihydro-3-hydroxy-2-phenyl-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933764-55-7 CMF C19 H13 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-57-9 CAPLUS CN Imidazo[4,5-d]dipvr:

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(phenylmethyl)- (CA INDEX NAME)

RN 933764-58-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-(phenylmethyl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933764-57-9 CMF C20 H15 N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-59-1 CAPLUS CN Imidazo[4,5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
3,8-dihydro-3-hydroxy-2-(phenylmethyl)- (CA INDEX NAME)

RN 933764-60-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 3,8-dihydro-3-hydroxy-2-(phenylmethyl)-, 2,2,2-trifluoroacetate (1:2) (CA
INDEX NAME)

CM 1

CRN 933764-59-1

CMF C20 H15 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-61-5 CAPLUS CN Imidazo[4,5-d]dipvr:

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(2-phenylethyl)- (CA INDEX NAME)

RN 933764-62-6 CAPLUS

CM 1

CRN 933764-61-5 CMF C21 H17 N5

CM 2

CRN 76-05-1 CMF C2 H F3 02

CN

RN 933764-63-7 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
3,8-dihydro-3-hydroxy-2-(2-phenylethyl)- (CA INDEX NAME)

RN 933764-64-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 3,8-dihydro-3-hydroxy-2-(2-phenylethy1)-, 2,2,2-trifluoroacetate (1:2)
(CA INDEX NAME)

CM 1

CRN 933764-63-7

CMF C21 H17 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

CN

RN 933764-65-9 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
3,8-dihydro-3-hydroxy-2-(4-piperidinyl)- (CA INDEX NAME)

RN 933764-66-0 CAPLUS CN Imidazo[4,5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
3,8-dihydro-3-hydroxy-2-(4-piperidinyl)-, 2,2,2-trifluoroacetate (1:3)
(CA INDEX NAME)

CM 1

CRN 933764-65-9 CMF C18 H18 N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-67-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(4-piperidinylmethyl)- (CA INDEX NAME)

RN 933764-68-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 1,8-dihydro-2-(4-piperidinylmethyl)-, 2,2,2-trifluoroacetate (1:3) (CA
 INDEX NAME)

CM 1

CRN 933764-67-1

CMF C19 H20 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-69-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
3,8-dihydro-3-hydroxy-2-(4-piperidinylmethyl)- (CA INDEX NAME)

RN 933764-70-6 CAPLUS CN Imidazo[4,5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
3,8-dihydro-3-hydroxy-2-(4-piperidinylmethyl)-, 2,2,2-trifluoroacetate
(1:3) (CA INDEX NAME)

CM 1

CRN 933764-69-3 CMF C19 H20 N6 O

Page 201

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CM 2
    CRN 76-05-1
    CMF C2 H F3 O2
F-C-CO2H
    933764-71-7 CAPLUS
RN
CN
    Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
     1,8-dihydro-2-(3-piperidinylmethyl)- (CA INDEX NAME)
         NH
        NH
RN
    933764-72-8 CAPLUS
CN
    Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
     1,8-dihydro-2-(3-piperidinylmethyl)-, 2,2,2-trifluoroacetate (1:3) (CA
     INDEX NAME)
    CM 1
    CRN 933764-71-7
    CMF C19 H20 N6
```

CM 2

CRN 76-05-1 CMF C2 H F3 02

RN 933764-73-9 CAPLUS

CN Imidazo [4,5-d]dipyrido [2,3-b:4',3'-f]azepine, 1,8-dihydro-2-[(tetrahydro-2H-pyran-4-y1)methyl]- (CA INDEX NAME)

RN 933764-74-0 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-[(tetrahydro-2H-pyran-4-y1)methy1]-, 2,2,2-trifluoroacetate
(1:2) (CA INDEX NAME)

CN

CM 1 CRN 933764-73-9 CMF C19 H19 N5 0

CM 2

CRN 76-05-1 CMF C2 H F3 O2

F-C-CO2H

RN 933764-75-1 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
3,8-dihydro-3-hydroxy-2-[(tetrahydro-2H-pyran-4-y1)methy1]- (CA INDEX NAME)

933764-76-2 CAPLUS RN CN

J33/04-76-2 CAFLUS
J33/04-76-2 CAFLUS
J3,8-dihydro-3-hydroxy-2-[(tetrahydro-2H-pyran-4-y1)methyl]-,
2,2,2-trilhuoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933764-75-1 CMF C19 H19 N5 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-77-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine, 2-(3,5-dichloro-4-pyridinyl)-1,8-dihydro- (CA INDEX NAME)

IT 933764-78-4P 933764-79-5P 933764-80-8P 933764-81-9P 933764-82-0P 933764-83-1P 933764-84-2P 933764-85-3P 933764-86-4P 933764-87-5P 933764-88-6P 933764-89-7P 933764-90-0P 933764-91-1P 933764-92-2P 933764-93-3P 933764-94-4P 933764-95-5P 933764-96-6P 933764-97-7P 933764-99-9P 933765-00-5P 933765-01-6P 933765-02-7P 933765-03-8P 933765-04-9P 933765-05-0P 933765-06-1P 933765-07-2P 933765-08-3P 933765-09-4P 933765-10-7P 933765-11-8P 933765-15-2P 933765-12-9P 933765-13-0P 933765-17-4P 933765-18-5P 933765-19-6P 933765-20-9P 933765-21-0P 933765-22-1P 933765-23-2P 933765-24-3P 933765-25-4P 933765-26-5P 933765-27-6P 933765-28-7P 933765-29-8P 933765-30-1P 933765-31-2P 933765-32-3P 933765-33-4P 933765-34-5P 933765-35-6P 933765-36-7P 933765-37-8P 933765-38-9P 933765-39-0P 933765-40-3P 933765-41-4P 933765-42-5P 933765-43-6P 933765-44-7P 933765-45-8P 933765-46-9P 933765-47-0P 933765-48-1P 933765-49-2P 933765-50-5P 933765-51-6P 933765-52-7P 933765-53-8P 933765-55-0P 933765-54-9P 933765-56-1P 933765-58-3P 933765-57-2P 933765-59-4P 933765-60-7P 933765-61-8P 933765-62-9P 933765-63-0P 933765-64-1P 933765-65-2P 933765-66-3P 933765-67-4P 933765-68-5P 933765-69-6P 933765-70-9P

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933765-71-0P
               933765-72-1P
                                 933765-73-2P
933765-74-3P
                933765-75-4P
                                 933765-76-5P
933765-77-6P
                933765-78-7P
                                 933765-79-8P
933765-80-1P
                933765-81-2P
                                 933765-82-3P
933765-83-4P
                933765-84-5P
                                 933765-85-6P
933765-86-7P
                933765-87-8P
                                 933765-88-9P
933765-89-0P
                933765-90-3P
                                 933765-91-4P
933765-92-5P
                933765-93-6P
                                 933765-94-7P
933765-95-8P
                933765-96-9P
                                 933765-97-0P
933765-98-1P
                933765-99-2P
                                 933766-00-8P
933766-01-9P
                933766-02-0P
                                 933766-03-1P
933766-04-2P
                933766-05-3P
                                 933766-06-4P
933766-07-5P
                933766-08-6P
                                 933766-09-7P
933766-10-0P
                933766-11-1P
                                 933766-12-2P
933766-13-3P
                933766-14-4P
                                 933766-15-5P
933766-16-6P
                933766-17-7P
                                 933766-18-8P
933766-19-9P
                933766-20-2P
                                 933766-21-3P
933766-22-4P
                933766-23-5P
                                 933766-24-6P
933766-25-7P
                933766-26-8P
                                 933766-27-9P
933766-28-0P
                933766-29-1P
                                 933766-30-4P
933766-31-5P
                933766-32-6P
                                 933766-33-7P
933766-34-8P
                933766-35-9P
                                 933766-36-0P
933766-37-1P
                933766-38-2P
                                 933766-39-3P
933766-40-6P
                 933766-41-7P
                                 933766-42-8P
933766-43-9P
                 933766-44-0P
                                 933766-45-1P
                933766-47-3P
                                 933766-48-4P
933766-46-2P
933766-49-5P
                933766-50-8P
                                 933766-51-9P
933766-52-0P
                933766-53-1P
                                 933766-54-2P
933766-55-3P
                933766-56-4P
                                 933766-57-5P
933766-58-6P
                933766-59-7P
                                 933766-60-0P
933766-61-1P
                933766-62-2P
                                 933766-63-3P
933766-64-4P
                933766-65-5P
                                 933766-66-6P
933766-67-7P
                933766-68-8P
                                 933766-69-9P
933766-70-2P
                933766-71-3P
                                 933766-72-4P
933766-73-5P
                933766-74-6P
                                 933766-75-7P
933766-76-8P
               933766-78-0P
                                 933766-79-1P
933766-80-4P
               933766-81-5P
                                 933766-82-6P
933766-83-7P
                933766-84-8P
                                 933766-85-9P
933766-86-0P
               933766-87-1P
                                 933766-88-2P
933766-89-3P
               933766-90-6P
                                 933766-91-7P
933766-93-9P
               933766-94-0P
                                 933766-95-1P
933766-96-2P
               933766-97-3P
                                 933766-98-4P
933766-99-5P
               933767-00-1P
                                 933767-01-2P
933767-02-3P
               933767-03-4P
                                 933767-04-5P
933767-05-6P
               933767-06-7P
                                 933767-08-9P
               933767-10-3P
                                 933767-11-4P
933767-09-0P
933767-12-5P
                933767-13-6P
                                 933767-14-7P
933767-15-8P
                933767-16-9P
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

⁽drug candidate; preparation of tetracyclic inhibitors of Janus kinases) RN 933764-78-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine,

^{2-(2,6-}dichlorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933764-79-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine, 2-(2,6-difluorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933764-80-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine, 2-(2,6-difluorophenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933764-79-5

CMF C19 H11 F2 N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-81-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine, 2-(2-chloro-6-fluorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933764-82-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine,
2-(2,6-dimethylphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933764-83-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine-2-butanenitrile, γ,γ -diethyl-1,8-dihydro- (CA INDEX NAME)

RN 933764-84-2 CAPLUS

CM 1

CRN 933764-83-1 CMF C21 H22 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-85-3 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine,
3,8-dihydro-3-hydroxy-2-[1-[(4-methoxypheny1)methy1]-5-methy1-3-

(trifluoromethy1)-1H-pyrazo1-4-y1]- (CA INDEX NAME)

OMe

RN 933764-86-4 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine,

1,8-dihydro-2-[1-[(4-methoxyphenyl)methyl]-5-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]- (CA INDEX NAME)

OMe

RN 933764-87-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine, 1,8-dihydro-2-[1-[(4-methoxyphenyl)methyl]-5-methyl-3-(trifluoromethyl)-1Hpyrazol-4-yl]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933764-86-4 CMF C26 H20 F3 N7 O

OMe

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933764-88-6 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine,
 3,8-dihydro-3-hydroxy-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl](CA INDEX NAME)

RN 933764-89-7 CAPLUS CN Imidazo[4,5-d]dipyri

Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine,
1,8-dihydro-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]- (CA INDEX NAME)

RN 933764-90-0 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine,
1,8-dihydro-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]-,
2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CN

CRN 933764-89-7 CMF C18 H12 F3 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

933764-91-1 CAPLUS RN CN

Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine,
2-(2,3-dimethylphenyl)-3,8-dihydro-3-hydroxy- (CA INDEX NAME)

933764-92-2 CAPLUS RN

Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine,
2-(2,3-dimethylphenyl)-1,8-dihydro- (CA INDEX NAME) CN

RN 933764-93-3 CAPLUS CN

7937(4-79-3 Arbos de Margorido (2,3-b:3',4'-f]azepine, 2-(2,3-dimethylphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933764-92-2 CMF C21 H17 N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

933764-94-4 CAPLUS

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CN 2-Pyridinamine, 3-(3,8-dihydro-3-hydroxyimidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepin-2-yl)-N,N-dimethyl- (CA INDEX NAME)

- RN 933764-95-5 CAPLUS
- CN 2-Pyridinamine, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepin-2-yl)-N,N-dimethyl- (CA INDEX NAME)

- RN 933764-96-6 CAPLUS
- CN 2-Pyridinamine, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepin-2-yl)-N,N-dimethyl-, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)
 - CM 1
 - CRN 933764-95-5
 - CMF C20 H17 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

933764-97-7 CAPLUS RN CN

Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepin-2yl)-3-fluoro- (CA INDEX NAME)

933764-99-9 CAPLUS RN

CN Imidazo[4,5-d]dipvrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-[(tetrahydro-2H-thiopyran-4-v1)methyl]- (CA INDEX NAME)

933765-00-5 CAPLUS RN CN

933/05-00-5 CAPLOS Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-[(tetrahydro-2H-thiopyran-4-y1)methyl]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933764-99-9 CMF C19 H19 N5 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933765-01-6 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 3,8-dihydro-3-hydroxy-2-[(tetrahydro-2H-thiopyran-4-y1)methy1]- (CA INDEX NAME)

RN 933765-02-7 CAPLUS CN Imidazo[4,5-d]dipvr:

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
3,8-dihydro-3-hydroxy-2-[(tetrahydro-2H-thiopyran-4-y1)methy1]-,
2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933765-01-6 CMF C19 H19 N5 O S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933765-03-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 1,8-dihydro-2-[3-methyl-5-(trifluoromethyl)-1H-pyrazol-4-yl]- (CA INDEX NAME)

2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933765-03-8 CMF C18 H12 F3 N7

CM

CRN 76-05-1 CMF C2 H F3 O2

933765-05-0 CAPLUS RN

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[5-(difluoromethyl)-3-methyl-1H-pyrazol-4-yl]-1,8-dihydro- (CA INDEX) CN

NAME)

RN 933765-06-1 CAPLUS

OMe

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-[1-[(4-methoxyphenyl)methyl]-5-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]- (CA INDEX NAME)

RN 933765-07-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[1,5-dimethyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]-1,8-dihydro- (CA INDEX NAME)

RN 933765-08-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[1-ethyl-5-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]-1,8-dihydro- (CA
INDEX NAME)

RN 933765-09-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[1-(cyclopropylmethyl)-5-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]-1,8dihydro- (CA INDEX NAME)

RN 933765-10-7 CAPLUS

● 2 HC1

933765-11-8 CAPLUS RN

1H-Pyrazole-1-sulfonamide, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-CN b:4',3'-f]azepin-2-y1)-N,N,5-trimethy1-3-(trifluoromethy1)- (CA INDEX NAME)

RN 933765-12-9 CAPLUS

CN 1H-Pyrazole-1-sulfonamide, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3b:4',3'-f]azepin-2-y1)-N, N, 5-trimethyl-3-(trifluoromethyl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933765-11-8 CMF C20 H17 F3 N8 O2 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933765-13-0 CAPLUS CN

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[3-(chlorodifluoromethyl)-5-methyl-1-(tetrahydro-2H-pyran-2-yl)-1H-pyrazo[-4-yl]-1,8-dihydro (CA INDEX NAME)

RN 933765-15-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(3,5-dimethyl-1H-pyrazol-4-yl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-17-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-[5-methyl-3-(2-methylpropyl)-1H-pyrazol-4-yl]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933765-16-3 CMF C21 H21 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

CN

CN

RN 933765-18-5 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3-ethyl-5-methyl-1H-pyrazol-4-yl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-19-6 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3-ethyl-5-methyl-1H-pyrazol-4-yl)-1,8-dihydro-, 2,2,2-trifluoroacetate
(1:2) (CA INDEX NAME)

CM

1

CRN 933765-18-5 CMF C19 H17 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933765-20-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(3-butyl-5-methyl-1H-pyrazol-4-yl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-21-0 CAPLUS CN Imidazo[4,5-d]dipvr:

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3-butyl-5-methyl-1H-pyrazol-4-yl)-1,8-dihydro-, 2,2,2-trifluoroacetate
(1:2) (CA INDEX NAME)

CM 1

CRN 933765-20-9

CMF C21 H21 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933765-22-1 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(3,5-diethyl-lH-pyrazol-4-yl)-1,8-dihydro- (CA INDEX NAME)

CM

CRN 933765-22-1 CMF C20 H19 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

933765-24-3 CAPLUS RN CN

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(3-cyclopropyl-5-methyl-1H-pyrazol-4-yl)-1,8-dihydro- (CA INDEX NAME)

933765-25-4 CAPLUS RN CN

Imidazo[4,5-d)dipyrido[2,3-b:4',3'-f]azepine,
2-(3-cyclopropyl-5-methyl-1H-pyrazol-4-yl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933765-24-3 CMF C20 H17 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

CN

RN 933765-26-5 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2-chloro-6-methylphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-27-6 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2-chloro-6-methylphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2)
(CA INDEX NAME)

CM 1

CRN 933765-26-5 CMF C20 H14 C1 N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933765-28-7 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3-methyl- (CA INDEX NAME)

RN 933765-29-8 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-3-methyl-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

1 CRN 933765-28-7 CMF C21 H14 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

933765-30-1 CAPLUS RN

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,4-dimethyl-3-thienyl)-1,8-dihydro- (CA INDEX NAME)

933765-31-2 CAPLUS

$$\begin{split} & \text{Imidazo}[4,5-d] \text{dipyrido}[2,3-b:4',3'-f] \text{azepine,} \\ & 2-(2,4-\text{dimethyl-}3-\text{thienyl})-1,8-\text{dihydro-,} 2,2,2-\text{trifluoroacetate} \end{aligned} \tag{CA}$$
INDEX NAME)

CN

CM 1

CRN 933765-30-1 CMF C19 H15 N5 S

CM

CRN 76-05-1 CMF C2 H F3 O2

RN 933765-32-3 CAPLUS CN Imidazo[4,5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-[4-(methylsulfinyl)phenyl]- (CA INDEX NAME)

```
RN
    933765-33-4 CAPLUS
CN
    Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
     1,8-dihydro-2-[4-(methylsulfinyl)phenyl]-, 2,2,2-trifluoroacetate (1:2)
     (CA INDEX NAME)
    CM 1
    CRN 933765-32-3
    CMF C20 H15 N5 O S
        - Me
         NH
        N
H
    CM
         2
    CRN 76-05-1
    CMF C2 H F3 O2
F-C-CO2H
  Ė
RN
    933765-34-5 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
     2-[4-(ethylthio)phenyl]-1,8-dihydro- (CA INDEX NAME)
```

RN 933765-35-6 CAPLUS
CN Imidazo[4,5-d]dityrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-[2-(5-methyl-2-furanyl)propyl]- (CA INDEX NAME)

RN 933765-36-7 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-benzo[b]thien-5-yl-1,8-dihydro- (CA INDEX NAME)

RN 933765-37-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

2-(2,4-dimethyl-5-thiazolyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-38-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-(5-methyl-3-phenyl-4-isoxazolyl)- (CA INDEX NAME)

RN 933765-39-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(4-chloro-1-methyl-1H-pyrazol-3-yl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-40-3 CAPLUS CN Imidazo[4,5-d]dipyri

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(1,3,5-trimethyl-1H-pyrazol-4-yl)- (CA INDEX NAME)

RN 933765-41-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(5-chloro-1,3-dimethyl-1H-pyrazol-4-yl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-42-5 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3,5-dimethyl-4-isoxazolyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-43-6 CAPLUS

RN 933765-44-7 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(1-cyclopropy1-2,5-dimethyl-lH-pyrrol-3-yl)-1,8-dihydro (CA INDEX NAME)

RN 933765-45-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[2,5-dimethoxy-4-(methylthio)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933765-46-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(trifluoromethyl)- (CA INDEX NAME)

RN 933765-47-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,4-dimethoxy-3-methylphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-48-1 CAPLUS

RN 933765-49-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2-ethoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-50-5 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,4-dimethoxypheny1)-1,8-dihydro- (CA INDEX NAME)

RN 933765-51-6 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(2,3,4,5,6-pentamethylphenyl)- (CA INDEX NAME)

RN 933765-52-7 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2-chloro-4-methoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-53-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(4-methoxy-2-methylphenyl)- (CA INDEX NAME)

RN 933765-54-9 CAPLUS

CN Phenol, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-(CA INDEX NAME)

933765-55-0 CAPLUS RN

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-(4-methoxy-2,5-dimethylphenyl)- (CA INDEX NAME)

RN 933765-56-1 CAPLUS CN

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2-chloro-3, 4-dimethoxyphenyl)-1, 8-dihydro- (CA INDEX NAME)

RN 933765-57-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(4-methoxy-2,3-dimethylphenyl)- (CA INDEX NAME)

RN 933765-58-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,6-dichloro-3,4-dimethoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-59-4 CAPLUS

CN Phenol, 2,4-dichloro-3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-6-methoxy- (CA INDEX NAME)

RN 933765-60-7 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(2,4,5-trimethylphenyl)- (CA INDEX NAME)

- RN 933765-61-8 CAPLUS
- CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 2-(2,4-dichloropheny1)-1,8-dihydro- (CA INDEX NAME)

RN 933765-62-9 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2-chloro-4-f]uorophenyl)-1,8-dihydro- (CA INDEX NAME)

- RN 933765-63-0 CAPLUS
- CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 2-(2,4-dimethylphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-64-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-[2-(trifluoromethoxy)phenyl]- (CA INDEX NAME)

RN 933765-65-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[2-(difluoromethoxy)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933765-66-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

1,8-dihydro-2-(2-methoxy-3-pyridiny1)- (CA INDEX NAME)

RN 933765-67-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[4-fluoro-2-(trifluoromethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933765-68-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(2-methoxyphenyl)- (CA INDEX NAME)

RN 933765-69-6 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(2,4,6-trimethylphenyl)- (CA INDEX NAME)

RN 933765-70-9 CAPLUS

CN Phenol, 2-chloro-3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-6-methoxy- (CA INDEX NAME)

RN 933765-71-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(3-methyl-2-pyridinyl)- (CA INDEX NAME)

RN

933765-72-1 CAPLUS Benzenamine, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-CN yl)-3-ethoxy-N, N-diethyl- (CA INDEX NAME)

RN 933765-73-2 CAPLUS CN

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(4-bromo-2,5-dimethoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-74-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 1,8-dihydro-2-[2-(2-methylpropoxy)phenyl]- (CA INDEX NAME)

RN 933765-75-4 CAPLUS

CN 2-Pyridinamine, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933765-76-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(1H-indol-4-yl)- (CA INDEX NAME)

RN 933765-77-6 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 1,8-dihydro-2-[2-[(trifluoromethyl)thio]phenyl]- (CA INDEX NAME)

RN 933765-78-7 CAPLUS

CN Phenol, 4-bromo-3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933765-79-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[2-chloro-4-(methylsulfonyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933765-80-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,2-difluoro-1,3-benzodioxol-4-yl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-81-2 CAPLUS

CN Phenol, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-3,5-dimethyl- (CA INDEX NAME)

RN 933765-82-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2-chloro-4,6-dimethoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-83-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3-chlorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-84-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[3-fluoro-5-(trifluoromethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933765-85-6 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(3,5-dichlorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-86-7 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3-chloro-4-methoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-87-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(6-chloro-1,3-benzodioxol-5-yl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-88-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(4-chloro-2,6-difluoropheny1)-1,8-dihydro- (CA INDEX NAME)

RN 933765-89-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(6-chloro-2,3-difluorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-90-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,6-dichloro-3-fluorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-91-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2-chloro-6-fluoro-3-methoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-92-5 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

RN 933765-93-6 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 1,8-dihydro-2-(2,4,6-trifluorophenyl)-, 2,2,2-trifluoroacetate (1:2) (CA
INDEX NAME)

CM 1

CRN 933765-92-5 CMF C19 H10 F3 N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933765-94-7 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-[2-methoxy-4-(trifluoromethoxy)pheny1]- (CA INDEX NAME)

RN 933765-95-8 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-[2-methoxy-4-(trifluoromethoxy)phenyl]-,
2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933765-94-7 CMF C21 H14 F3 N5 O2

F3C-O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

F-C-CO₂H

RN 933765-96-9 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3-chloro-4-fluorophenyl)-1,8-dihydro- (CA INDEX NAME)

C1 NH NH

RN 933765-97-0 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

2-(3-chloro-4-fluoropheny1)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933765-96-9 CMF C19 H11 C1 F N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

F-C-CO₂H

RN 933765-98-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(4-fluoro-2-methylphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933765-99-2 CAPLUS CN Imidazo[4,5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(4-fluoro-2-methylphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2)
(CA INDEX NAME)

CM 1

CRN 933765-98-1 CMF C20 H14 F N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

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RN 933766-00-8 CAPLUS

RN 933766-01-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,4-dichloro-6-methoxyphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate
(1:2) (CA INDEX NAME)

CM

CRN 933766-00-8 CMF C20 H13 C12 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

CN

RN 933766-02-0 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,6-dichloro-3-methoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933766-03-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 2-(2,6-dichloro-3-methoxyphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate
(1:2) (CA INDEX NAME)

CM 1

CRN 933766-02-0 CMF C20 H13 C12 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 02

RN 933766-04-2 CAPLUS

CN Imidazo [4,5-d]dipyrido [2,3-b:4',3'-f]azepine, 2-[2,6-dichloro-4-(methylthio)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933766-05-3 CAPLUS

CM 1

CN

CRN 933766-04-2

CMF C20 H13 C12 N5 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-06-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(methylsulfinyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933766-07-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[2,6-dichloro-4-(methylsulfinyl)phenyl]-1,8-dihydro-,

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2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-06-4

CMF C20 H13 C12 N5 O S
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CM 2

CRN 76-05-1 CMF C2 H F3 O2



RN 933766-08-6 CAPLUS

CN Imidazo [4,5-d]dipyrido [2,3-b:4',3'-f]azepine, 2-[2,6-dichloro-4-(methylsulfonyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933766-09-7 CAPLUS CN Imidazo[4,5-d]dipvr:

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(methylsulfonyl)phenyl]-1,8-dihydro-,
2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933766-08-6 CMF C20 H13 C12 N5 O2 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-10-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(6-chloro-2-fluoro-3-methoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933766-11-1 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(6-chloro-2-fluoro-3-methoxyphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate
(1:2) (CA INDEX NAME)

CM 1

CN

CRN 933766-10-0

CMF C20 H13 C1 F N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-12-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2-chloro-6-fluoro-4-methoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933766-13-3 CAPLUS

 $\label{lambda} Imidazo [4,5-d] dipyrido [2,3-b:4',3'-f] azepine, \\ 2-(2-chloro-6-fluoro-4-methoxyphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)\\ \\$

CM 1

CN

CRN 933766-12-2

CMF C20 H13 C1 F N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-14-4 CAPLUS

CN Benzenemethanol, 3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933766-15-5 CAPLUS

CN Benzenemethanol, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3,5-difluoro- (CA INDEX NAME)

RN 933766-16-6 CAPLUS
CN Phenol, 3,5-dichloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y-l)- (CA INDEX NAME)

RN 933766-17-7 CAPLUS
CN 3-Pyridinecarbonitrile, 5-chloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933766-18-8 CAPLUS

CN 3-Pyridinecarbonitrile, 5-chloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)

CM 1

CRN 933766-17-7

CMF C19 H10 C1 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-19-9 CAPLUS

CN 3,5-Pyridinedicarbonitrile, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933766-20-2 CAPLUS

CN 3,5-Pyridinedicarbonitrile, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)

CM

CRN 933766-19-9

CMF C20 H10 N8

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-21-3 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3-fluoro-6-methyl- (CA INDEX NAME)

RN 933766-22-4 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-3-fluoro-6-methyl-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-21-3 CMF C21 H13 F N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-23-5 CAPLUS

CN 3-Pyridinecarbonitrile, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933766-24-6 CAPLUS

CN 3-Pyridinecarbonitrile, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)

CM

CRN 933766-23-5

CMF C19 H11 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-25-7 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-3,6-difluoro- (CA INDEX NAME)

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RN 933766-26-8 CAPLUS
CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3,6-difluoro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-25-7 CMF C20 H10 F2 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-27-9 CAPLUS

CN Benzonitrile, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-

y1)-2-fluoro-4-(trifluoromethy1)- (CA INDEX NAME)

RN 933766-28-0 CAPLUS CN Benzonitrile, 3-(1,

Benzonitrile, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-2-fluoro-4-(trifluoromethyl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-27-9 CMF C21 H10 F4 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

- RN 933766-29-1 CAPLUS
- CN Benzonitrile, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-4-methoxy- (CA INDEX NAME)

- RN 933766-30-4 CAPLUS
- CN Benzonitrile, 3-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-4-methoxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)
 - CM 1
 - CRN 933766-29-1 CMF C21 H14 N6 O

- CM :
- CRN 76-05-1 CMF C2 H F3 O2

RN 933766-31-5 CAPLUS

CN Benzonitrile, 6-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-2,3-dimethoxy- (CA INDEX NAME)

RN 933766-32-6 CAPLUS

CN Benzonitrile, 6-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-2,3-dimethoxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-31-5 CMF C22 H16 N6 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-33-7 CAPLUS CN

1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3b:4',3'-f]azepin-2-y1)-4,5-dimethoxy- (CA INDEX NAME)

RN 933766-34-8 CAPLUS 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-CN b:4',3'-f]azepin-2-y1)-4,5-dimethoxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-33-7 CMF C23 H15 N7 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-35-9 CAPLUS

CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3b:4',3'-f]azepin-2-yl)-4-hydroxy-5-methoxy- (CA INDEX NAME)

RN 933766-36-0 CAPLUS

1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b;4',3'-f]azepin-2-y1)-4-hydroxy-5-methoxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-35-9 CMF C22 H13 N7 O2

OMe

CM 2

CRN 76-05-1 CMF C2 H F3 O2

F-C-CO2H

RN 933766-37-1 CAPLUS

CN Benzonitrile, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[3,4-b:3',2'-f]azepin-2-yl)-2,5-dimethoxy- (CA INDEX NAME)

RN 933766-38-2 CAPLUS

CN Benzonitrile, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[3,4-b:3',2'-f]azepin-2-yl)-2,5-dimethoxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-37-1

CMF C22 H16 N6 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-39-3 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2yl)-5-(methylsulfonyl)- (CA INDEX NAME)

RN 933766-40-6 CAPLUS CN Benzonitrile, 2-(1.8

Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-5-(methylsulfonyl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933766-39-3 CMF C21 H14 N6 O2 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-41-7 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3,5-dimethoxy- (CA INDEX NAME)

RN 933766-42-8 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-3,5-dimethoxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-41-7 CMF C22 H16 N6 O2

CM 2

CRN 76-05-1 CMF C2 H F3 02

RN 933766-43-9 CAPLUS
CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2yl)-3,5-difluoro- (CA INDEX NAME)

RN 933766-44-0 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3,5-difluoro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-43-9 CMF C20 H10 F2 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-45-1 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3,4-difluoro- (CA INDEX NAME)

RN 933766-46-2 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-3,4-difluoro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-45-1 CMF C20 H10 F2 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-47-3 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2yl)-3-fluoro-6-methoxy- (CA INDEX NAME)

RN 933766-48-4 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3-fluoro-6-methoxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-47-3 CMF C21 H13 F N6 O

CM

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-49-5 CAPLUS

CN Benzonitrile, 5-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2yl)-2-fluoro- (CA INDEX NAME)

RN 933766-50-8 CAPLUS

CN Benzonitrile, 5-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2yl)-2-fluoro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-49-5

CMF C20 H11 F N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-51-9 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3-fluoro-4-methoxy- (CA INDEX NAME)

RN 933766-52-0 CAPLUS
CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2yl)-3-fluoro-4-methoxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933766-51-9 CMF C21 H13 F N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 02

RN 933766-53-1 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-

y1)-3-fluoro-5-methoxy- (CA INDEX NAME)

RN 933766-54-2 CAPLUS

Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3-fluoro-5-methoxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CN

CRN 933766-53-1 CMF C21 H13 F N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

933766-55-3 CAPLUS RN CN

1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3b:4',3'-f]azepin-2-y1)-5-(methylthio)- (CA INDEX NAME)

933766-56-4 CAPLUS RN

CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3b:4',3'-f]azepin-2-y1)-5-(methylthio)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-55-3 CMF C22 H13 N7 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-57-5 CAPLUS

CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-5-(hydroxymethy1)- (CA INDEX NAME)

RN 933766-58-6 CAPLUS

CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-5-(hydroxymethy1)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM :

CRN 933766-57-5 CMF C22 H13 N7 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-59-7 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-(hydroxymethyl)- (CA INDEX NAME)

RN 933766-60-0 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-(hydroxymethyl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-59-7 CMF C21 H14 N6 O

CM

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-61-1 CAPLUS
CN Benzeneacetonitrile, 3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)- (CA INDEX NAME)

RN 933766-62-2 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-(cyanomethy1)-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)- (CA INDEX NAME)

RN 933766-63-3 CAPLUS

CN 1,3-Benzenedicarbonitrile, 5-(cyanomethyl)-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933766-62-2 CMF C23 H12 N8

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-64-4 CAPLUS

CN Benzeneacetonitrile, 3-cyano-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933766-65-5 CAPLUS

CN Benzeneacetonitrile, 3-cyano-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-64-4 CMF C22 H13 N7

CM 2

CRN 76-05-1 CMF C2 H F3 02

RN 933766-66-6 CAPLUS
CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-(methylsulfinyl)- (CA INDEX NAME)

RN 933766-67-7 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-5-(methylsulfinyl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933766-66-6 CMF C21 H14 N6 O S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-68-8 CAPLUS CN 1,3-Benzenedicarbon

1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-(methylsulfonyl)- (CA INDEX NAME)

RN 933766-69-9 CAPLUS

CN 1,3=Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3"-f]azepin-2-y1)-5-(methylsulfonyl)-, 2,2,2-trifluoroacetate (1:2)
(CA INDEX NAME)

CM 1

CRN 933766-68-8 CMF C22 H13 N7 O2 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-70-2 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2yl)-5-hydroxy- (CA INDEX NAME)

RN 933766-71-3 CAPLUS

CN Benzenemethanamine, 3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-N,N-dimethyl- (CA INDEX NAME)

RN 933766-72-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[2,6-dichloro-4-(4-morpholinylmethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933766-73-5 CAPLUS CN Imidazol4.5-dldipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(4-thiomorpholinylmethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933766-74-6 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(4-thiomorpholinylmethyl)phenyl]-1,8-dihydro-,
2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)

CM 1

CRN 933766-73-5

CMF C24 H20 C12 N6 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

F-C-CO₂H

RN 933766-75-7 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[2,6-dichloro-4-(methoxymethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933766-76-8 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(ethylthio)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933766-78-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 2-[2,6-dichloro-4-[(1-methylethyl)thio]phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933766-79-1 CAPLUS CN

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-[(1-methylethyl)thio]phenyl]-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-78-0 CMF C22 H17 C12 N5 S

SPr-i

RN 933766-80-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(ethylsulfinyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933766-81-5 CAPLUS CN Imidazo[4,5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(ethylsulfinyl)phenyl]-1,8-dihydro-,
2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-80-4

CMF C21 H15 C12 N5 O S

CM 2

CRN 76-05-1

CMF C2 H F3 O2

RN 933766-82-6 CAPLUS
CN Inidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(ethylsulfonyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933766-83-7 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(ethylsulfonyl)phenyl]-1,8-dihydro-,
2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-82-6

CMF C21 H15 C12 N5 O2 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

933766-84-8 CAPLUS RN CN

Inidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[2,6-dichloro-4-[(1-methylethyl)sulfinyl]phenyl]-1,8-dihydro- (CA INDEX NAME)

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RN
    933766-85-9 CAPLUS
CN
    Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
    2-[2,6-dichloro-4-[(1-methylethyl)sulfinyl]phenyl]-1,8-dihydro-,
    2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)
    CM 1
    CRN 933766-84-8
    CMF C22 H17 C12 N5 O S
        -Pr-i
           Cl
    CM
         2
    CRN 76-05-1
    CMF C2 H F3 O2
F-C-C02H
  Ė
RN
    933766-86-0 CAPLUS
CN
    Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
    2-[2,6-dichloro-4-[(1-methylethyl)sulfonyl]phenyl]-1,8-dihydro- (CA INDEX
    NAME)
```

RN 933766-87-1 CAPLUS

933/00-8/-1 CARDS
Imidazol4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-[(1-methylethyl)sulfonyl]phenyl]-1,8-dihydro-,
2,2,2-trifuoroacetate (1:2) (CA INDEX NAME)

CM

CN

CRN 933766-86-0

CMF C22 H17 C12 N5 O2 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-88-2 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[3,4-b:3',2'-f]azepin-2-yl)-5-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

RN 933766-89-3 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[3,4-b:3',2'-f]azepin-2yl)-5-((1-methylethyl)sulfonyl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-88-2 CMF C23 H18 N6 O2 S

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CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-90-6 CAPLUS CN 1,3-Benzenedicarbon

1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-(ethylthio)- (CA INDEX NAME)

RN 933766-91-7 CAPLUS

1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-(ethylthio)-, 2,2,2-trifluoroacetate (1:2) (CA

INDEX NAME)

CM 1

CRN 933766-90-6 CMF C23 H15 N7 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-93-9 CAPLUS

CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-(ethylthio)- (CA INDEX NAME)

RN 933766-94-0 CAPLUS

CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-5-(ethylthio)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-93-9 CMF C22 H15 C1 N6 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

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RN 933766-95-1 CAPLUS

CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3b:4',3'-f]azepin-2-y1)-5-[(1-methylethyl)thio]- (CA INDEX NAME)

RN 933766-96-2 CAPLUS

CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-[(1-methylethyl)thio]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-95-1 CMF C24 H17 N7 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

933766-97-3 CAPLUS RN

Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-CN f]azepin-2-yl)-5-[(1-methylethyl)thio]- (CA INDEX NAME)

933766-98-4 CAPLUS RN

CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'flazepin-2-vl)-5-[(1-methylethyl)thio]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-97-3 CMF C23 H17 C1 N6 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933766-99-5 CAPLUS

CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-[(1-methylethyl)sulfinyl]- (CA INDEX NAME)

RN 933767-00-1 CAPLUS

CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3b:4',3'-f]azepin-2-yl)-5-[(1-methylethyl)sulfinyl]-,

2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-99-5

CMF C24 H17 N7 O S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-01-2 CAPLUS CN Benzonitrile, 3-chl

Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[3,4-b:3',2'-f]azepin-2-yl)-5-[(1-methylethyl)sulfinyl]- (CA INDEX NAME)

RN 933767-02-3 CAPLUS

CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[3,4-b:3',2'-f]azepin-2-yl)-5-[(1-methylethyl)sulfinyl]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-01-2 CMF C23 H17 C1 N6 O S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-03-4 CAPLUS

CN Acetonitrile, 2-[3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)phenoxy]- (CA INDEX NAME)

RN

Acetonitrile, 2-[3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)phenoxy]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME) CN

CM 1

CRN 933767-03-4 CMF C21 H12 C12 N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

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RN 933767-05-6 CAPLUS

CN Propanenitrile, 2-[3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)phenoxy]- (CA INDEX NAME)

RN 933767-06-7 CAPLUS

CN Propanenitrile, 2-[3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)phenoxy]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CN

CRN 933767-05-6

CMF C22 H14 C12 N6 O

CM 2

CRN 76-05-1

CMF C2 H F3 O2

RN 933767-08-9 CAPLUS CN 1,3-Benzenedicarbonitrile, 5-

1,3-Benzenedicarbonitrile, 5-(1-cyanoethoxy)-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)- (CA INDEX NAME)

RN 933767-09-0 CAPLUS

1,3-Benzenedicarbonitrile, 5-(1-cyanoethoxy)-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CN

CRN 933767-08-9

CMF C24 H14 N8 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

CN

RN 933767-10-3 CAPLUS

CN Benzonitrile, 5-(1-cyanoethoxy)-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933767-11-4 CAPLUS

CN Benzonitrile, 5-(1-cyanoethoxy)-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-10-3

CMF C23 H15 N7 O

CM 2 CRN 76-05-1 CMF C2 H F3 O2

RN 933767-12-5 CAPLUS
CN 1,3-Benzenedicarbonitrile, 5-(cyanomethoxy)-2-(1,8-dihydroimidazo[4,5-didpyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933767-13-6 CAPLUS CN 1,3-Benzenedicarbon

1,3-Benzenedicarbonitrile, 5-(cyanomethoxy)-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, 2,2,2-trifluoroacetate (1:2) (CAINDEN NAME)

CM

CRN 933767-12-5 CMF C23 H12 N8 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

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RN 933767-14-7 CAPLUS

CN Propanamide, 2-[3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3b:4',3'-f]azepin-2-yl)phenoxy]- (CA INDEX NAME)

O Me

H2N-C-CH-O

933767-15-8 CAPLUS Propanamide, 2-[3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-CN b:4',3'-f]azepin-2-y1)phenoxy]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-14-7

CMF C22 H16 C12 N6 O2

O Me

H2N-C-CH-O

CM

CRN 76-05-1

CMF C2 H F3 O2

RN 933767-16-9 CAPLUS
CN Propanamide, 2-[3,5-dicyano-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)phenoxy]- (CA INDEX NAME)

933767-20-5P

933767-17-0P

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933767-22-7P
                 933767-23-8P
                                   933767-24-9P
933767-25-0P
                 933767-26-1P
                                   933767-27-2P
933767-28-3P
                 933767-29-4P
                                   933767-31-8P
933767-32-9P
                 933767-34-1P
                                   933767-35-2P
933767-36-3P
                 933767-37-4P
                                   933767-39-6P
933767-40-9P
                 933767-41-0P
                                   933767-42-1P
933767-43-2P
                 933767-44-3P
                                   933767-45-4P
933767-46-5P
                 933767-47-6P
                                   933767-48-7P
                 933767-50-1P
                                   933767-51-2P
933767-49-8P
                                   933767-54-5P
933767-52-3P
                 933767-53-4P
933767-55-6P
                 933767-56-7P
                                   933767-57-8P
933767-58-9P
                 933767-60-3P
                                   933767-62-5P
                                   933767-66-9P
933767-63-6P
                 933767-65-8P
933767-68-1P
                 933767-69-2P
                                   933767-70-5P
933767-71-6P
                 933767-72-7P
                                   933767-73-8P
933767-74-9P
                 933767-75-0P
                                   933767-76-1P
933767-77-2P
                 933767-78-3P
                                   933767-79-4P
933767-80-7P
                                   933767-82-9P
                 933767-81-8P
933767-83-0P
                                   933767-85-2P
                 933767-84-1P
933767-87-4P
                 933767-88-5P
                                   933767-90-9P
933767-91-0P
                 933767-92-1P
                                   933767-93-2P
                 933767-95-4P
933767-94-3P
                                   933767-96-5P
933767-97-6P
                 933767-98-7P
                                   933767-99-8P
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933767-19-2P

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933768-00-4P
                 933768-01-5P
                                   933768-02-6P
933768-03-7P
                 933768-04-8P
                                   933768-05-9P
933768-18-4P
                                   933768-20-8P
                 933768-19-5P
933768-45-7P
                 933768-47-9P
                                   933768-48-0P
933768-49-1P
                 933768-50-4P
                                   933768-51-5P
933768-53-7P
                 933768-55-9P
                                   933768-56-0P
933768-57-1P
                 933768-58-2P
                                   933768-59-3P
                 933768-61-7P
                                   933768-63-9P
933768-60-6P
933768-64-0P
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of tetracyclic inhibitors of Janus kinases)
RN 933767-17-0 CRPLUS
CN Propagaids 2-13.5-dicyapo-4-(1.8-dibydroimidazo14.5-didipyrido12.3-

Propanamide, 2-[3,5-dicyano-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)phenoxy]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-16-9 CMF C24 H16 N8 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-19-2 CAPLUS

CN Benzamide, 5-(2-amino-1-methy1-2-oxoethoxy)-3-cyano-2-(1,8dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

933767-20-5 CAPLUS
Benzamide, 5-(2-amino-1-methyl-2-oxoethoxy)-3-cyano-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, CN 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

0 Me

CRN 933767-19-2 CMF C24 H18 N8 O3

CM

CRN 76-05-1 CMF C2 H F3 O2

O Me

RN 933767-22-7 CAPLUS

CN 1,3-Benzenedicarboxamide, 5-(2-amino-1-methyl-2-oxoethoxy)-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933767-23-8 CAPLUS

CN 1,3-Benzenedicarboxamide, 5-(2-amino-1-methy1-2-oxoethoxy)-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933767-22-7

CMF C24 H20 N8 O4

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-24-9 CAPLUS
CN Acetamide, 2-[3,3-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl]phenoxy]- (CA INDEX NAME)

RN 933767-25-0 CAPLUS

CN Acetamide, 2-[3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)phenoxyl-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-24-9 CMF C21 H14 C12 N6 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-26-1 CAPLUS

CN Acetamide, 2-[3,5-dicyano-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)phenoxy]- (CA INDEX NAME)

CN

933767-27-2 CAPLUS Acetamide, 2-[3,5-dicyano-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)phenoxy]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-26-1 CMF C23 H14 N8 O2

CM

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-28-3 CAPLUS

CN Acetamide, 2-cyano-2-[3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)phenoxy]-N,N-dimethyl- (CA INDEX NAME)

RN 933767-29-4 CAPLUS

Acetamide, 2-cyano-2-[3,5-dichloro-4-(1,8-dihydroimidazo[4,5-didipyrido[2,3-b:4',3'-f]azepin-2-yl)penoxy]-N,N-dimethyl-,2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

1

CN

CRN 933767-28-3

CMF C24 H17 C12 N7 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-31-8 CAPLUS
CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4",3"-f]azepin-2-yl)- (CA INDEX NAME)

RN 933767-32-9 CAPLUS

CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-31-8 CMF C21 H11 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

CN

RN 933767-34-1 CAPLUS

Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933767-35-2 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-34-1 CMF C20 H12 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-36-3 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2yl)-4-hydroxy- (CA INDEX NAME)

RN 933767-37-4 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-4-hydroxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-36-3 CMF C20 H12 N6 O

OH

CM :

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-39-6 CAPLUS

CN 1,3-Benzodioxole-5-carbonitrile, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933767-40-9 CAPLUS

CN 1,3-Benzodioxole-5-carbonitrile, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-39-6 CMF C21 H12 N6 O2

CM :

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-41-0 CAPLUS

CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

RN 933767-42-1 CAPLUS

CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-41-0 CMF C20 H11 C1 N6

CM :

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-43-2 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3-fluoro-4-methyl- (CA INDEX NAME)

RN 933767-44-3 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-

y1)-3-fluoro-4-methy1-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-43-2 CMF C21 H13 F N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-45-4 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2yl)-3-fluoro- (CA INDEX NAME)

RN 933767-46-5 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3-fluoro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-45-4

CMF C20 H11 F N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-47-6 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3-methoxy- (CA INDEX NAME)

RN 933767-48-7 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2yl)-3-methoxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-47-6

CMF C21 H14 N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-49-8 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-fluoro- (CA INDEX NAME)

RN 933767-50-1 CAPLUS

CN Benzonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-5-fluoro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-49-8

CMF C20 H11 F N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-51-2 CAPLUS

CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-6-methoxy- (CA INDEX NAME)

RN 933767-52-3 CAPLUS
CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-6-methoxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM

CRN 933767-51-2 CMF C21 H13 C1 N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-53-4 CAPLUS

CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-

b:4',3'-f]azepin-2-y1)-4-methoxy- (CA INDEX NAME)

RN 933767-54-5 CAPLUS
CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-4-methoxy-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-53-4 CMF C22 H13 N7 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

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RN 933767-55-6 CAPLUS

CN Carbamic acid, N-[4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3-pyridinyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

RN 933767-56-7 CAPLUS

CN Carbamic acid, N-[4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-3-pyridinyl]-, 1,1-dimethylethyl ester, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)

CM

CRN 933767-55-6 CMF C23 H21 N7 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-57-8 CAPLUS

CN Carbamic acid, N-[4-(3,8-dihydro-3-hydroxyimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-3-pyridinyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

RN 933767-58-9 CAPLUS

CN Carbamic acid, N-[4-(3,8-dihydro-3-hydroxyimidazo[4,5-d]dipyrido[2,3-b;4',3'-f]azepin-2-yl)-3-pyridinyl]-, 1,1-dimethylethyl ester, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)

CM 1

CRN 933767-57-8 CMF C23 H21 N7 O3

CM 2

CRN 76-05-1

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CMF C2 H F3 O2
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RN 933767-60-3 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(3,5-dimethyl-4-pyridinyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2)
(CA INDEX NAME)

CM 1

CRN 933767-59-0 CMF C20 H16 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

F-C-CO₂H

RN 933767-62-5 CAPLUS
CN Phenol, 3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-61-4 CMF C19 H11 C12 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-63-6 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

2-(2,6-dichloro-4-methoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933767-65-8 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,6-dichloro-4-ethoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933767-66-9 CAPLUS CN Imidazo[4,5-d]dipyri

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(1-methylethoxy)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933767-68-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(trifluoromethoxy)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933767-69-2 CAPLUS CN

Januaro [4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[2,6-dichloro-4-(trifluoromethoxy)phenyl]-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-68-1 CMF C20 H10 C12 F3 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

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RN 933767-70-5 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(3-methyl-4-pyridinyl)- (CA INDEX NAME)

RN 933767-71-6 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 1,8-dihydro-2-(3-methyl-4-pyridinyl)-, 2,2,2-trifluoroacetate (1:3) (CA
 INDEX NAME)

CM

CRN 933767-70-5 CMF C19 H14 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-72-7 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(2-methyl-3-pyridinyl)- (CA INDEX NAME)

RN 933767-73-8 CAPLUS CN Imidazo[4,5-d]dipvri

Imidazo(4,5-d)dipyrido[2,3-b:4',3'-f]azepine,
1,8-dihydro-2-(2-methyl-3-pyridinyl)-, 2,2,2-trifluoroacetate (1:3) (CA
INDEX NAME)

CM 1

CRN 933767-72-7 CMF C19 H14 N6

CM :

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-74-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,4-dimethyl-3-pyridinyl)-1,8-dihydro- (CA INDEX NAME)

RN 933767-75-0 CAPLUS

CM

1

CRN 933767-74-9 CMF C20 H16 N6

CM 2

CRN 76-05-1

CMF C2 H F3 O2

RN 933767-76-1 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(5-chloro-2-ethoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933767-77-2 CAPLUS CN Imidazo[4,5-d]dipvr:

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(5-chloro-2-ethoxyphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2)
(CA INDEX NAME)

CM 1

CRN 933767-76-1 CMF C21 H16 C1 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-78-3 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(5-chloro-2-methoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933767-79-4 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 2-(5-chloro-2-methoxyphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2)
(CA INDEX NAME)

CM 1

CRN 933767-78-3

CMF C20 H14 C1 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-80-7 CAPLUS CN Imidazo[4,5-d]dipvri

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(5-bromo-2-ethoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933767-81-8 CAPLUS

Imidazo(4,5-d)dipyrido(2,3-b:4',3'-f)azepine,
2-(5-bromo-2-ethoxyphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2) (CA
INDEX NAME)

CM 1

CN

CRN 933767-80-7 CMF C21 H16 Br N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

CN

RN 933767-82-9 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,3-difluoro-6-methoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933767-83-0 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,3-difluoro-6-methoxyphenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate
(1:2) (CA INDEX NAME)

CN

CM 1

CRN 933767-82-9 CMF C20 H13 F2 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-84-1 CAPLUS CN Imidazo[4,5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 933767-85-2 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-d-(trif]tluoromethyl]phenyl]-1,8-dihydro-,
2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933767-84-1

CMF C20 H10 C12 F3 N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-87-4 CAPLUS

CN Benzenamine, 3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-N,N-dimethyl- (CA INDEX NAME)

RN CN

933767-88-5 CAPLUS
Benzenamine, 3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'f]azepin-2-yl)-N,N-dimethyl-, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)

CM 1

CRN 933767-87-4 CMF C21 H16 C12 N6

NMe 2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-90-9 CAPLUS CN Imidazo[4,5-d]dipyr

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,6-dichloro-4-fluorophenyl)-1,8-dihydro- (CA INDEX NAME)

RN 933767-91-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
 2-(2,6-dichloro-4-fluorophenyl)-1,8-dihydro-, 2,2,2-trifluoroacetate (1:2)
 (CA INDEX NAME)

CM 1

CRN 933767-90-9 CMF C19 H10 C12 F N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933767-92-1 CAPLUS

CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-methoxy- (CA INDEX NAME)

RN 933767-93-2 CAPLUS

CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-5-methoxy- (CA INDEX NAME)

RN 933767-94-3 CAPLUS

CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-5-ethoxy- (CA INDEX NAME)

- RN 933767-95-4 CAPLUS
- CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-ethoxy- (CA INDEX NAME)

- RN 933767-96-5 CAPLUS
- CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-(1-methylethoxy)- (CA INDEX NAME)

- RN 933767-97-6 CAPLUS
- CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-(1-methylethoxy)- (CA INDEX NAME)

- RN 933767-98-7 CAPLUS
- CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3b:4',3'-f]azepin-2-y1)-5-(trifluoromethoxy)- (CA INDEX NAME)

RN 933767-99-8 CAPLUS CN

93318/-99-0 CAFBOS 1/3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-(trifluoromethoxy)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

F3C-O

CRN 933767-98-7 CMF C22 H10 F3 N7 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

- RN 933768-00-4 CAPLUS
- CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-(trifluoromethyl)- (CA INDEX NAME)

- RN 933768-01-5 CAPLUS
- CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-(dimethylamino) (CA INDEX NAME)

- RN 933768-02-6 CAPLUS
- CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-(dimethylamino)-, 2,2,2-trifluoroacetate (1:3) (CA INDEX NAME)
 - CM 1
 - CRN 933768-01-5
 - CMF C22 H16 C1 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933768-03-7 CAPLUS

CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-5-fluoro- (CA INDEX NAME)

RN 933768-04-8 CAPLUS

CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-y1)-5-fluoro-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933768-03-7 CMF C20 H10 C1 F N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933768-05-9 CAPLUS

●2 HC1

- RN 933768-18-4 CAPLUS
- CN 1,3-Benzenedicarbonitrile, 2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, hydrochloride (1:2) (CA INDEX NAME)

●2 HC1

- RN 933768-19-5 CAPLUS
- CN Cyclohexaneacetonitrile, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, cis- (CA INDEX NAME)

Relative stereochemistry.

RN 933768-20-8 CAPLUS

CN Cyclohexaneacetonitrile, 4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, trans- (CA INDEX NAME)

Relative stereochemistry.

RN 933768-45-7 CAPLUS

CN Benzonitrile, 3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, hydrochloride (1:2) (CA INDEX NAME)

● 2 HC1

RN 933768-47-9 CAPLUS CN Imidazo[4,5-d]pvride

Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,
10-fluoro-3,8-dlhydro-2-[3-methy1-5-(trifluoromethy1)-1H-pyrazol-4-y1](CA INDEX NAME)

RN 933768-48-0 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine, 2-[5-(difluoromethyl)-3-methyl-1H-pyrazol-4-yl]-10-fluoro-3,8-dihydro-(CA INDEX NAME)

RN 933768-49-1 CAPLUS
CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,
2-(3,5-dimethyl-lH-pyrazol-4-yl)-10-fluoro-3,8-dihydro- (CA INDEX NAME)

RN 933768-50-4 CAPLUS
CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,
2-(3,5-diethyl-1H-pyrazol-4-yl)-10-fluoro-3,8-dihydro- (CA INDEX NAME)

RN 933768-51-5 CAPLUS

CN 1H-Pyrazole-1-acetonitrile, 4-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-y1)-5-methy1-3-(trifluoromethy1)- (CA INDEX NAME)

RN 933768-53-7 CAPLUS

CM

CRN 933768-52-6 CMF C21 H14 C1 F N4

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933768-55-9 CAPLUS

CN Benzonitrile, 2-(10-fluoro-3,8-dihydroimidazo[4,5-d]pyrido[2,3-b][1]benzazepin-2-y1)-3-methyl-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 933768-54-8 CMF C22 H14 F N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933768-56-0 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine, 2-(2,6-dimethylphenyl)-10-fluoro-3,8-dihydro- (CA INDEX NAME)

RN 933768-57-1 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine, 2-(2,6-dimethylphenyl)-10-fluoro-3,8-dihydro-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM

1

CRN 933768-56-0 CMF C22 H17 F N4

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933768-58-2 CAPLUS

N Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine, 2-(3,5-dichloro-4-pyridiny1)-10-fluoro-3,8-dihydro- (CA INDEX NAME)

RN 933768-59-3 CAPLUS CN Imidazo[4,5-d]pyrido

Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,
2-(3,5-dichloro-4-pyridinyl)-10-fluoro-3,8-dihydro-,
2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933768-58-2 CMF C19 H10 C12 F N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

F-C-CO₂H

RN 933768-60-6 CAPLUS

CN Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,

2-(2,4-dimethyl-3-pyridinyl)-10-fluoro-3,8-dihydro- (CA INDEX NAME)

RN 933768-61-7 CAPLUS

Imidazo[4,5-d]pyrido[2,3-b][1]benzazepine,
2-(2,4-dimethyl-3-pyridinyl)-10-fluoro-3,8-dihydro-,
2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM

CN

CRN 933768-60-6 CMF C21 H16 F N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933768-63-9 CAPLUS

Page 382

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-(2,6-dichlorophenvl)-1,8-dihydro- (CA INDEX NAME)

RN 933768-64-0 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-[3-methyl-5-(1,1,2,2,2-pentafluoroethyl)-1H-pyrazol-4-yl]-(CA INDEX NAME)

IT 933768-21-9P 933768-23-1P 933768-29-7P 933768-32-2P 933768-34-4P 933768-39-9P 933768-40-2P 933768-41-3P 933768-42-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (intermediate; preparation of tetracyclic inhibitors of Janus kinases)

RN 933768-21-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

2-(3,5-dichloro-4-pyridinyl)-3,8-dihydro-3-hydroxy- (CA INDEX NAME)

RN 933768-23-1 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,6-dichlorophenyl)-3,8-dihydro-3-hydroxy- (CA INDEX NAME)

RN 933768-29-7 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:3',4'-f]azepine, 2-(3,5-dichloro-4-pyridinyl)-3,8-dihydro-3-hydroxy- (CA INDEX NAME)

933768-32-2 CAPLUS RN CN

933/08-32-2 CAFUOS Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 1,8-dihydro-2-[5-methyl-1-(tetrahydro-ZH-pyran-2-yl)-3-(trifluoromethyl)-H-pyrazol-4-yl]-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM

CRN 933768-31-1 CMF C23 H20 F3 N7 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

CN

RN 933768-34-4 CAPLUS

Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
3,8-dihydro-3-hydroxy-2-[5-methyl-1-(tetrahydro-2H-pyran-2-y1)-3(trifluoromethyl)-1H-pyrazol-4-y1]-, 2,2,2-trifluoroacetate (1:?) (Ci
NDEX NAME)

CM 1

CRN 933768-33-3

CMF C23 H20 F3 N7 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933768-39-9 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine, 2-[3-(difluoromethy1)-5-methy1-1-(tetrahydro-2H-pyran-2-y1)-1H-pyrazo1-4-

y1]-3,8-dihydro-3-hydroxy- (CA INDEX NAME)

RN 933768-40-2 CAPLUS CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,

dihydro-3-hydroxy- (CA INDEX NAME)

RN 933768-41-3 CAPLUS

CN Benzenemethanol, 3,5-dichloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 933766-14-4

CMF C20 H13 C12 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 933768-42-4 CAPLUS
CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-[2,6-dichloro-4-(chloromethyl)phenyl]-1 8-d

2-[2,6-dichloro-4-(chloromethyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

IT 933768-44-6 1182709-65-4 1182709-67-6 1182709-68-7 1182709-69-8 1182709-83-6 1182709-84-7 1182709-99-4 RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of tetracyclic inhibitors of Janus kinases)
RN 933768-44-6 CAPLUS

CN Imidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepine,
2-(2,6-dichlorophenyl)-1,8-dihydro-, hydrochloride (1:1) (CA INDEX NAME)

HCl

RN 1182709-65-4 CAPLUS

CN Benzenemethanol, 3-chloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[3,4-b:3',2'-f]azepin-2-yl)- (CA INDEX NAME)

RN 1182709-67-6 CAPLUS

CN Benzeneacetonitrile, 3-chloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[3,4-b:3',2'-f]azepin-2-yl)- (CA INDEX NAME)

RN 1182709-68-7 CAPLUS CN Imidazo[4,5-d]dipyrio

Imidazo[4,5-d]dipyrido[3,4-b:3',2'-f]azepine,
2-[2-chloro-4-(methylsulfinyl)phenyl]-1,8-dihydro- (CA INDEX NAME)

RN 1182709-69-8 CAPLUS

CN Phenol, 3-chloro-4-(1,8-dihydroimidazo[4,5-d]dipyrido[3,4-b:3',2'-f]azepin-2-yl)- (CA INDEX NAME)

RN 1182709-84-7 CAPLUS
CN Imidazo[4,5-d]dipyrido[3,4-b:3',2'-f]azepine,
2-(2-chloro-6-methoxyphenyl)-1,8-dihydro- (CA INDEX NAME)

RN 1182709-99-4 CAPLUS

CN Benzamide, 5-(2-amino-1-methyl-2-oxoethoxy)-3-chloro-2-(1,8-dihydroimidazo[4,5-d]dipyrido[2,3-b:4',3'-f]azepin-2-yl)- (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 23 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:150615 CAPLUS

DOCUMENT NUMBER: 146:201595

TITLE: Use of a GSK-3 inhibitor to maintain potency of cultured multipotent non-embryonic progenitor cells

INVENTOR(S): Mays, Robert W.

PATENT ASSIGNEE(S): Athersvs, Inc., USA SOURCE: PCT Int. Appl., 52 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent.

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	PATENT NO.					KIND DATE			APPLICATION NO.						DATE			
					A2 20070208 A3 20070322			WO 2006-US29736										
		AE, CN, GE, KR, MW, SC,	AG, CO, GH, KZ, MX, SD,	AL, CR, GM, LA, MZ, SE,	AM, CU, HN, LC, NA, SG,	AT, CZ, HR, LK, NG, SK,	AU, DE, HU, LR, NI, SL,	AZ, DK, ID, LS, NO, SM,	DM, IL, LT, NZ,	DZ, IN, LU, OM,	EC, IS, LV, PG,	EE, JP, LY, PH,	EG, KE, MA, PL,	ES, KG, MD, PT,	FI, KM, MG, RO,	GB, KN, MK, RS,	GD, KP, MN, RU,	
	RW:	AT, IS, CF, GM,	BE, IT, CG, KE,	BG, LT, CI, LS,	CH, LU, CM,	CY, LV, GA, MZ,	ZM, CZ, MC, GN, NA, TM	DE, NL, GQ,	PL, GW,	PT, ML,	RO, MR,	SE, NE,	SI, SN,	SK, TD,	TR, TG,	BF, BW,	BJ, GH,	
	US 20080194021 PRIORITY APPLN. INFO.:							0814		US 2008-996890 US 2005-704169P WO 2006-US29736								

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 146:201595

The present invention is directed to the culture of non-embryonic cells, that can differentiate into cell types of more than one embryonic lineage, in culture under conditions that maintain differentiation capacity during expansion. In particular, the invention relates to culturing non-embryonic cells in the presence of at least one GKS-3 inhibitor, such as 6-bromoindirubin-3'-oxime (BIO). It was shown that the addition of BIO, or other GSK-3 inhibitors (including other indirubins), to non-embryonic cells, including multipotent adult progenitor cells, leads to the maintenance of a pluripotent phenotype for the cells, leading to more robust differentiation responses. Thus, this class of compds. provides an improvement in non-embryonic cell culturing and the ability to maintain pluripotency during expansion. 676596-65-9

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(GSK-3 inhibitor; use of GSK-3 inhibitor to maintain potency of cultured multipotent non-embryonic progenitor cells)

676596-65-9 CAPLUS

Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-bromo-7,12-dihydro- (CA INDEX NAME)



OS.CITING REF COUNT: REFERENCE COUNT:

- 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
- (1 CITINGS)

 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 24 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:1176630 CAPLUS

DOCUMENT NUMBER: 145:489215

TITLE: Azapaullones as immunomodulators, their preparation, pharmaceutical compositions, and use for preventing

and treating pancreatic autoimmune disorders INVENTOR(S): Mussmann, Rainer; Kunick, Conrad; Stukenbrock, Hendrik; Geese, Marcus; Kegel, Simone; Burk, Ulrike

PATENT ASSIGNEE(S): Develogen Aktiengesellschaft, Germany; Technische Universitaet Carolo-Wilhelmina zu Braunschweig

SOURCE: PCT Int. Appl., 83pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2 PATENT INFORMATION:

P							KIND DATE				APPLICATION NO.									
We	2006				1109		WO 2	006-	EP41	20060504										
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,			
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,			
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,	KP,	KR,			
		KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	MW,	MX,			
		MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,			
		SG,	SK,	SL,	SM,	SY,	TJ,	TM.	TN,	TR.	TT.	TZ,	UA.	UG.	US,	UZ,	VC.			
		VN.	YU.	ZA.	ZM.	ZW														
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,			
		IS,	IT,	LT,	LU.	LV,	MC,	NL,	PL,	PT,	RO.	SE,	SI,	SK,	TR.	BF,	BJ,			
		CF.	CG.	CI.	CM.	GA.	GN.	GO,	GW.	ML.	MR.	NE.	SN.	TD.	TG.	BW,	GH.			
																AZ,				
			KZ.													,				
E	EP 1879591									EP 2	006-	7247	20060504							
	R:	AT,	BE.	BG.	CH.	CY.	CZ.	DE.	DK.	EE.	ES.	FI.	FR.	GB,	GR.	HU.	IE.			
							LV,													
U	s 2008						US 2008-913486						20080603							
PRIORI	IY APP						EP 2	005-	9846	A 20050504										
EP 2005-15986 A 200507														722						
EP 2005-23168 A 2005102														024						
EP 2006-1327 A 200601												123								
										WO 2						0060				
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT																				
OTHER SOURCE(S): CASREACT 145:489215; MARPAT 145:489215																				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

GT

The invention relates to azapaullones of general formula I, which are immunomodulators. In compds. I, R1 and R2 are independently selected from H, (un)substituted C1-6 alkyl, and (un)substituted C2-7 acyl; each R3 and R4 is independently selected from halo, cyano, nitro, OR1, (un) substituted C1-6 alkyl, (un)substituted C2-6 alkenyl, (un)substituted C2-6 alkynyl, (un) substituted C3-10 cycloalkyl, (un) substituted C3-10 heterocyclyl, (un) substituted C6-10 aryl, and (un) substituted 5- to 10-membered

of

heteroaryl; and each of m and n is independently 0-3. The invention also relates to the preparation of I, pharmaceutical compns, comprising a compound

formula I optionally together with pharmaceutically acceptable carriers, diluents, and adjuvants and optionally including an immunosuppressive agent, as well as to the use of the compns., particularly in combination with immunomodulating agents, in the prevention, and/or treatment of pancreatic autoimmune disorders, e.g., type I diabetes, latent autoimmune diabetes in adults (LADA), and neurodegenerative disorders . Condensation of pyridoazepinedione II with 4-hydrazinobenzonitrile gave the corresponding hydrazone, which underwent heterocyclization to give pyridoazepinoindole III. The compds. of the invention are immunomodulators, e.g., III expressed IC50 values of 15 nM and 500 nM to glycogen synthase kinase-3 (GSK3) and cyclin-dependent kinase 1 (CDK1)/cyclinB, resp.

ΙT 914088-60-1P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of azapaullones for treatment and prevention of pancreatic autoimmune disorders)

RN 914088-60-1 CAPLUS

Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 7,12-dihydro-9-methoxy-CN (CA INDEX NAME)

914088-62-3P 914088-64-5P 914088-65-6P 914088-67-8P 914088-69-0P 914088-70-3P 914088-72-5P 914088-73-6P 914088-77-0P 914088-79-2P 914088-81-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(drug candidate; preparation of azapaullones for treatment and prevention of pancreatic autoimmune disorders)

914088-62-3 CAPLUS RN CN

Pyrido[3',2':2,3]azepino[4,5-b]indole-9-carboxylic acid, 5.6.7.12-tetrahydro-6-oxo- (CA INDEX NAME)

RN 914088-64-5 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indole-9-carbonitrile, 5,6,7,12-tetrahydro-6-oxo- (CA INDEX NAME)

RN 914088-65-6 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 7,12-dihydro-9-hydroxy-(CA INDEX NAME)

RN 914088-67-8 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-chloro-7,12-dihydro-(CA INDEX NAME)

RN 914088-69-0 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 8,10-dichloro-7,12-dihydro- (CA INDEX NAME)

- RN 914088-70-3 CAPLUS
- CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 7,12-dihydro-9-methyl-(CA INDEX NAME)

- RN 914088-72-5 CAPLUS
- CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-fluoro-7,12-dihydro-(CA INDEX NAME)

- RN 914088-73-6 CAPLUS
- CN Pyrido[3',2':2,3]azepino[4,5-b]indole-5,12-diacetic acid, 9-bromo-6,7-dihydro-6-oxo-, 5,12-dimethyl ester (CA INDEX NAME)

RN 914088-77-0 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 7,12-dihydro- (CA INDEX NAME)

RN 914088-79-2 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 7,12-dihydro-9-(trifluoromethyl)- (CA INDEX NAME)

RN 914088-81-6 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 7,12-dihydro-9-iodo- (CA INDEX NAME)

IT 676596-65-9

RL: RCT (Reactant); RACT (Reactant or reagent) (starting material; preparation of axapaullones for treatment and prevention of pancreatic autoimmune disorders)

RN 676596-65-9 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-bromo-7,12-dihydro- (CA INDEX NAME)

REFERENCE COUNT:

11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 25 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:1176629 CAPLUS

DOCUMENT NUMBER: 145:483725

TITLE: Use of GSK-3 inhibitors for preventing and treating

pancreatic autoimmune disorders

INVENTOR(S): Mussmann, Rainer; Austen, Matthias; Kelter,

Arndt-Rene; Harder, Friedrich; Aicher, Babette; Lomow,

Alexander

PATENT ASSIGNEE(S): Develogen Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 84pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PA						KIND DATE				APPLICATION NO.									
	2006	1172	12					WO 2006-EP4170											
	W:	CN, GE, KZ, MZ,	CO, GH, LC, NA,	CR, GM, LK, NG,	CU, HR, LR, NI,	CZ, HU, LS, NO,	AU, DE, ID, LT, NZ,	DK, IL, LU, OM,	DM, IN, LV, PG,	DZ, IS, LY, PH,	EC, JP, MA, PL,	EE, KE, MD, PT,	EG, KG, MG, RO,	ES, KM, MK, RU,	FI, KN, MN, SC,	GB, KP, MW, SD,	GD, KR, MX, SE,		
	RW:		YU,	ZA,	ZM,	ZW	TJ,	·		·	·	·	·	·	•				
		CF,	CG,	CI, LS,	CM, MW,	GA, MZ,	MC, GN, NA,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,		
EP	1728							1206	EP 2005-11599						20050530				
-		AT, IS,	BE,	BG, LI,	CH,	CY,		DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,		
EP	1885						2008	0213	EP 2006-724711					20060504					
	R:	AT,					CZ,										IE,		
US	2008	0207	594		A1		2008	0828	US 2007-913612						20	0071	105		
RIORIT										EP 2 EP 2 EP 2 WO 2	005- 005- 005- 005-	9846 1159: 1598: 2316:	9 6 8		A 20 A 20 A 20 A 20	0050 0050 0050	504 530 722 024		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 145:483725

AB This invention relates to the use of Pax4 stimulating compds., e.g. Glycogen synthase kinase-3 (GSK-3) inhibitors, particularly in combination with immunomodulating agents, in the prevention, and/or treatment of pancreatic autoimmune disorders, e.g. type I diabetes or LADA. More particularly, this invention relates to the use of compds. selected from paullones, indirubines, substituted ureas, maleimide derivs. and pyrimidine thiones. Further, the present invention relates to a method of identifying and/or characterizing pancreatic beta-cell mitogens by using cells expressing a pancreatic gene or a gene whose function is controlled by a pancreatic gene, particularly the Pax4 gene, and which are

transfected with a reporter gene.

IT 676596-65-9, 1-Azakenpaullone

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(use of GSK3 inhibitors for preventing and treating pancreatic autoimmune disorders)

RN 676596-65-9 CAPLUS

NN 070506-05 CAR H00 CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-bromo-7,12-dihydro- (CA INDEX NAME)

OS.CITING REF COUNT:

- 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
- REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 26 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:710823 CAPLUS

DOCUMENT NUMBER: 145:145984

TITLE: Preparation of anti-inflammatory erythromycin

macrolide conjugates

INVENTOR(S): Mercep, Mladen; Mesic, Milan; Markovic, Stribor;

Pesic, Dijana; Ozimec Landak, Ivana; Komac, Marijana; Makaruha Stegic, Oresta; Selmani, Selvira; Banjanac,

Mihailo

PATENT ASSIGNEE(S): Pliva-Istrazivacki Institut D.O.O., Croatia;

Glaxosmithkline Istrazivacki Centar Zagreb D.O.O.

SOURCE: PCT Int. Appl., 117 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE . English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	PATENT NO.						DATE		APPLICATION NO.									
WO				A2 20060			0720	WO 2006-IB1079										
WO							AU,			DD	DC.	DD	DW	DV	D7	CZ	CH	
							DE,											
							ID,											
							LT,											
							NZ,											
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	RW:						CZ,											
							MC,											
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					RU,													
EP	1844																	
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		IS,	IT,	LI,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	AL,	
		BA,	HR,	MK,	YU													
									JP 2007-550873						20060113			
US 20080096830 A1 20080424 US 2007-813882 2007							0070	713										
PRIORIT	Y APP	LN.	INFO	. :						US 2	005-	6439	31P		P 2	0050	113	
	WO 2006-IB1079 W 20060113							113										
ASSIGNM	ENT H	ISTO	RY F	OR U	S PA	TENT	AVA	ILABI	LE I	N LS	US D	ISPL	AY F	ORMA	T			
OTHER S	OTHER SOURCE(S): CASREACT 145:145984; MARPAT 145:145984																	
O.T.																		

^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The present invention relates (a) to new compds. represented by formula M-L-D: wherein M represents a macrolide subunit (macrolide moiety) derived from macrolide possessing the property of accumulation in inflammatory cells, D represents a dibenzo[e/z]azulene subunit with anti-inflammatory, analgesic and/or antipyretic activity and L represents a linking group covalently linking M and D; (b) to their pharmacol. acceptable salts,

prodrugs and solvates, (c) to processes and intermediates for their preparation, and (d) to their use in the treatment of inflammatory diseases and conditions in humans and animals. Thus, macrolide conjugate I was prepared and tested in mice and in vitro as antiinflammatory agent, wherein the inflammatory process comprises pro-inflammatory cytokine production, the method further comprising exposing human peripheral leukocytes to an amount of compound effective to reduce production of at least one of TNF- α , IL-18, IL-6, IL-8, IL-2, IL-5, and IFN- α , compared to control leukocytes.

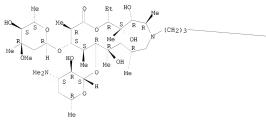
IT 899810-20-9P 899810-21-0P 899810-22-1P
899810-23-2P 899810-24-3P 899810-57-2P
Rl: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(preparation of antiinflamatory erythromycin macrolide conjugates)
BN 899810-20-9 CAPIUS

RN 899810-20-9 CAPLUS
CN 8H-Dibenzo[b,f]thieno[2,3-d]azepine-2-carboxamide,

N=[3-{(2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-13-{(2,6-dideoxy-3-C-methyl-3-0-methyl- α -L-ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,8,10,12,14-hexamethyl-15-oxo-11-{[3,4,6-trideoxy-3-(dimethylamino)- β -D-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadec-6-yl]propyl]-(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

RN 899810-21-0 CAPLUS

CN 8H-Dibenzo[b,f]thieno[2,3-d]azepine-2-carboxamide,
 N-[3-[(2R,38,4R,5R,8R,10R,11R,12S,13S,14R)-2-ethyl-3,4,10,11,13 pentahydroxy-3,5,8,10,12,14-hexamethyl-15-oxo-1-oxa-6-azacyclopentadec-6 yl]propyl]- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

Me
R
R
R
R
R
(CH2)3

PAGE 1-B

RN 899810-22-1 CAPLUS

CN

 $\label{local-control} $1-0xa-6-azacyclopentadecan-15-one, $13-[(2,6-dideoxy-4-C-[([2-(8H-dibenzo[b,f]thieno[2,3-d]azepin-2-ylcarbony])amino]ethyl]amino]ethyl]-anion]ethyl]-3-C-methyl-3-0-methyl-a-L-ribo-hexopyranosyl]oxy]-2-ethyl-3,4,10-trihydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[3,4,6-trideoxy-3-(dimethylamino]-B-D-xylo-hexopyranosyl]oxy]-, $(2R,35,4R,5R,8R,10R,11R,12S,13S,14R)-(9CI) (CA HDEX NAME) $(2R,35,4R,5R,8R,10R,12R,12R,12S,14R)-(9CI) (CA HDEX NAME) $(3R,35,4R)-(9CI) (CA HDEX NAM$

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

PAGE 2-B

- RN 899810-23-2 CAPLUS
- CN 8H-Dibenzo[b, f]thieno[2,3-d]azepine-2-carboxamide,
 8-benzoyl-N-[3-[(2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-13-[(2,6-dideoxy-3-C-methyl-3-0-methyl-a-L-ribo-nexopyranosyl)oxyl-2-ethyl-3,4,10trihydroxy-3,5,8,10,12,14-hexamethyl-15-oxo-11-[(3,4,6-trideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosyl)oxyl-1-oxa-6-azacyclopentadec6-yl)propyl|-(SCI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

RN 899810-24-3 CAPLUS

CN 2-Propenamide, $3-(8H-dibenzo[b,f]thieno[2,3-d]azepin-2-yl)-N-[3-[(2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-13-[(2,6-dideoxy-3-C-methyl-3-O-methyl-\alpha-L-ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,8,10,12,14-hexamethyl-15-oxo-11-[[3,4,6-trideoxy-3-(dimethylamino)-B-D-xylo-hexopyranosyl]oxy]-1-oxa-6-azacyclopentadec-6-yl]propyl]-(9CI) (CA INDEX NAME)$

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-B

RN 899810-57-2 CAPLUS

CN 2-Propenamide, 3-(8H-dibenzo[b, f]thieno[2,3-d]azepin-2-yl)-N-[3-(2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-13-([2,6-dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxyl-2-ethyl-3, 4,10-trihydroxy-3,5,8,10,12,14-hexamethyl-15-oxo-11-[[3,4,6-trideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosyl]oxyl-1-(axa-6-azacyclopentadec-6-yl]propyl]-,(2E)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-B

ΙT 899810-76-5 899810-77-6 899810-78-7 RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of antiinflamatory erythromycin macrolide conjugates) 899810-76-5 CAPLUS

RN

CN 8H-Dibenzo[b,f]thieno[3,2-d]azepine-2-carboxylic acid (CA INDEX NAME) 10/565,702

RN 899810-77-6 CAPLUS

CN 8H-Dibenzo[b,f]thieno[2,3-d]azepine-2-carboxylic acid, 8-benzoyl- (CA INDEX NAME)

RN 899810-78-7 CAPLUS

CN 2-Propenoic acid, 3-(8H-dibenzo[b,f]thieno[2,3-d]azepin-2-y1)- (CA INDEX NAME)

но₂с-сн=сн

OS.CITING REF COUNT:

2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT:

9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L28 ANSWER 27 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:195980 CAPLUS

DOCUMENT NUMBER: 144:274313

TITLE: Preparation of tetraaza-benzo[f]azulenes as

vasopressin Vla antagonists

INVENTOR(S): Andrzej, Roman Batt; Baxter, Andrew John; Heeney, Celine; Stockley, Martin Lee; Bryan Roe, Michael;

Hudson, Peter; Handy, Rachel

Ferring B.V., Neth. PATENT ASSIGNEE(S):

PCT Int. Appl., 463 pp. SOURCE: CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY	ACC.	NUM.	COUNT:
PATENT	INFO	RMATI	: MC

PA:	PATENT NO.				KIND DATE			APPLICATION NO.						DATE				
WO	2006	0212	13		A2		2006	0302	WO 2005-DK540									
WO	2006	0212	13		A3		2006	0817										
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KP,	KR,	KZ,	
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	
											RO,							
		SL,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	
		ZA,	ZM,	ZW														
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		KG,	KZ,	MD,	RU,													
EP	1632								EP 2004-104062									
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EP	1781	661			A2		2007	0509		EP 2	2005-	7733	84		2	0050	824	
	R:	mı,	DE,	ъо,	Cn,	CI,	C4,	DE,	DR,	EE,	, Eo,	EI,	EF,	GD,	Gr,	no,	ır,	
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JP	2008	5106	84		T		2008	0410		JP 2	2007- 2005-	5251	/2		21	0050	824	
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KK	2009	1034	/5		A		2009	1000		KK 2	2009-	/129	93		2	0050	824	
RU	23/0	49/			C2		2009		RU 2	2007-	1012	39		2	0050	824		
CN	1015	0334	12		A		2009		CN 2	2005-	8001	42		2	0020	215		
KK	2007	0323	13		A		2007	0321		KK 2	2007-	1004	4 /		2	0070	108	
PIX	2007	0013	94		A.		2008	0002		MX 2	2007-	1392	12		21	00/0	202	
ΤIΛ	2007	DINUL	04/		A		2007	0003		TIN 4	2007-	DINTU	4 /		2	0070	20/	
ZA.	2007	0012	066		A 2.1		2008	0130		AA A	2007- 2008- 2009-	125/	0.0		2	00/0	114	
311	2009	2011	202		AI		2009	0123		00 A	2008-	2011	20		2	0000	114 114	
AU	2009	2011	60		A1		2009	0423		AU Z	2009 2009-:	2011	60		2	0090	224	
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A1	20090423	AU	2009-201169		20090324
		EP	2004-104062	A	20040824
		US	2004-603557P	P	20040824
		AU	2005-276790	A3	20050824
		CA	2005-2567776	A3	20050824
		WO	2005-DK540	W	20050824
		KR	2007-700447	A3	20070108
	A1	A1 20090423	EP US AU CA WO	A1 20090423 AU 2009-201169 EP 2004-104062 US 2004-603357F AU 2005-2767796 CA 2005-2567776 WO 2005-DK540 KR 2007-700447	EP 2004-104062 A US 2004-603557P P AU 2005-276790 A3 CA 2005-2567776 A3 WO 2005-DK840 W

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): CASREACT 144:274313; MARPAT 144:274313 GI

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- The title compds. I [G = NR5R6, II-V; A1 = CH2, CH(OH), NH, N(alkyl), O and S; A2 = CH2, CH(OH), C(O), NH; A3, A12 = S, NH, N(alkyl), etc.; A4, A13 = CR9, N; A5, A14 = CR10, N; A6 = CH2, NH, N(alkv1), O; A7, A11 = C, N; A8, A9 = CH, N, NH, S, etc.; A10 = CH:CH, CH, N, NH, etc.; the ring constituted by A7-A11 is aromatic; R1-R3 = H, alkvl, O(alkvl), NO2, F, C1, Br; R4 = H, alkyl, aryl, heteroaryl, etc.; R5, R6 = alkyl, aryl, (CH2) f-aryl, (CH2) f-heteroaryl; R9, R10 = H, alkyl, alkoxy, etc.; W = O, NH; X = (CH2) m, C(O), SOj; Y = O, S, NH, N(alkyl); a, f, f = 1-2; m = 0-2; with provisos] which are vasopressin Vla receptor antagonists, were prepared and formulated. E.g., a multi-step synthesis of 4-(3,3-dimethylbutyl)piperazine-1-carboxylic acid 4-(3,6-dimethyl-4,10-dihydro-3H-2,3,4,9-tetraaza-benzo[f]azulene-9carbonyl)-2-fluorobenzylamide, starting from 4-(tert-butoxycarbonylamino-methyl)-3-fluorobenzoic acid and 3,6-dimethyl-3,4,9,10-tetrahydro-2,3,4,9-tetraazabenzo[f]azulene (prepns. of the reactants was provided), was given. Compds. I were assayed to determine their ability to inhibit the cellular consequences of AVP stimulation on intact cells. In the assay, compds. I cause significant inhibition of cellular activation at concns. of 30 µM or less. Preferred compds. I cause significant inhibition at concns. of 300 nM. Pharmaceutical compns. of the compds. I are useful as treatment of dysmenorrhea. 877860-01-0P
 - RL: BYP (Byproduct); PREP (Preparation)
 - (preparation of tetraaza-benzo[f]azulenes as vasopressin Vla antagonists) 877860-01-0 CAPLUS
- CN Methanone, (4,5-dihydro-2-methyl-6H-oxazolo[4,5-d][1]benzazepin-6yl)phenyl- (CA INDEX NAME)

IT 877858-04-3P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of tetraaza-benzo[f]azulenes as vasopressin Vla antagonists)

RN 877858-04-3 CAPLUS

CN 4-Piperidinecarboxamide, N-[[4-[[4,5-dihydro-2-methyl-1-(phenylmethyl)]midazo[4,5-d][]]benzazepin-6(1H)-yl]carbonyl]-2methylphenyl]methyl]-1-(3,3-dimethylbutyl)- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

ΤТ 318237-73-9P 877843-65-7P 877844-13-8P 877844-14-9P 877844-15-0P 877844-16-1P 877847-45-5P 877853-91-3P 877857-70-0P 877857-75-5P 877858-03-2P 877857-74-4P 877858-26-9P 877858-05-4P 877858-06-5P 877858-27-0P 877859-73-9P 877859-75-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of tetraaza-benzo[f]azulenes as vasopressin Vla antagonists)

- RN 318237-73-9 CAPLUS
- CN Imidazo[4,5-d][1]benzazepine, 1,4,5,6-tetrahydro-2-methyl- (CA INDEX NAME)

- RN 877843-65-7 CAPLUS
- CN Imidazo[4,5-d][1]benzazepine, 9-chloro-1,4,5,6-tetrahydro-2-methyl- (CA INDEX NAME)

- RN 877844-13-8 CAPLUS
- CN 4-Piperidinecarboxamide, N-[[4-[(9-chloro-4,5-dihydro-2-methylimidazo[4,5-d)[1]benzazepin-6(1H)-yl)carbonyl]-2-methylphenyl]methyl]-1-(3,3-dimethylbutyl)- (CA INDEX NAME)

PAGE 2-A

877844-14-9 CAPLUS RN CN

6//0491479 OrBOS amide, N-[[4-[(4,5-dihydro-2,9-dimethylimidazo[4,5-d]]1]benzazepin-6(1H)-yl)carbonyl]-methylphenyl]methyl]-1-(3,3-dimethylbutyl)- (CA INDEX NAME)

PAGE 2-A

877844-15-0 CAPLUS RN CN

8/7644-10-0 CAELOS
4-Piperidinecarboxamide, N-[[4-[(4,5-dihydro-2-methyl-6H-oxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-2-methylphenyl]methyl]-1-(3,3-dimethylbutyl)- (CA INDEX NAME)

Page 417

PAGE 2-A CH2-CH2-CMe3

877844-16-1 CAPLUS RN CN

6//0441041 CARDS Amide, N-[[4-[(4,5-dihydro-2-methylimidazo[4,5-d]]]]benzazepin-6(IH)-yl)carbonyl]-2-methylphenyl]methyl]-1-(3,3-dimethylbutyl)- (CA INDEX NAME)

PAGE 2-A

- RN 877847-45-5 CAPLUS
- CN 1-Piperazinecarboxamide, N-[[4-[(4,5-dihydro-2,9-dimethylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]cyclohexyl]methyl]-4-(3,3-dimethylbutyl)
 - d][1]benzazepin-6(1H)-y1)carbony1]cyclohexy1]methy1]-4-(3,3-dimethy1buty1)(CA INDEX NAME)

PAGE 2-A

RN 877853-91-3 CAPLUS

CN 1-Propanone, 3-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]-2-methylphenyl]-1-[4-(3,3-dimethylbutyl)-1-piperazinyl]- (CA INDEX NAME)

PAGE 2-A

RN 877857-70-0 CAPLUS

CN Butanamide, N-[[4-[(4,5-dihydro-2,9-dimethylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]-3-fluorophenyl]methyl]- (CA INDEX NAME)

RN 877857-74-4 CAPLUS

CN Methanone, (4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-y1)[4-[3-[4-(3,3-dimethylbutyl)-1-piperazinyl]propoxy]-3-fluorophenyl]- (CA INDEX NAME)

PAGE 1-A

Page 422

Me₃C-CH₂-CH₂

- RN 877857-75-5 CAPLUS
- CN Methanone, (4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-y1)[4-[3-[4-(3,3-dimethylbutyl)-1-piperazinyl]propoxy]-3-methylphenyl] (CA INDEX NAME)

Me

PAGE 1-A

PAGE 2-A

- RN 877858-03-2 CAPLUS
- CN Cyclopropanecarboxamide, N-[[4-[(4,5-dihydro-2-methyl-6H-oxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-2-methylphenyl]methyl]- (CA INDEX NAME)

PAGE 1-A

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- RN 877858-05-4 CAPLUS
- CN Cyclopropanecarboxamide, N=[(4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-y1)carbonyl]-2-methylphenyl|methyl]- (CA INDEX NAME)

PAGE 2-A

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- RN 877858-06-5 CAPLUS
- CN Propanamide, N-[[4-[(9-chloro-4,5-dihydro-2-methylimidazo[4,5-d][]]benzazepin-6(lH)-yl)carbonyl]-2-methylphenyl]methyl]-2-methyl-(CA INDEX NAME)

RN 877858-26-9 CAPLUS

RN 877858-27-0 CAPLUS

CN 4H-Oxazolo[4,5-d][1]benzazepine, 5,6-dihydro-2-methyl- (CA INDEX NAME)

RN 877859-73-9 CAPLUS

CN 1-Piperazinecarboxamide, N-[[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]-2-methylphenyl]methyl]-4-(3,3-dimethylbutyl)- (CA INDEX NAME)

PAGE 2-A

RN 877859-75-1 CAPLUS

CN 1-Piperazinecarboxamide, N-[[4-[(4,5-dihydro-2-methyl-6H-oxazolo[4,5-d][1]benzazepin-6-yl]carbonyl]-2-methylphenyl]methyl]-4-(3,3-dimethylbutyl)- (CA INDEX NAME)

PAGE 2-A

IT 1172623-30-1 1172624-86-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of tetraaza-benzo[f]azulenes as vasopressin Vla antagonists)

RN 1172623-30-1 CAPLUS

CN Methanone, [4-(aminomethyl)-2-fluorophenyl](4,5-dihydro-2,9-dimethylimidazo[4,5-d][]benzazepin-6(1H)-yl)- (CA INDEX NAME)

- RN 1172624-86-0 CAPLUS
- CN Methanone, [4-(aminomethyl)cyclohexyl](4,5-dihydro-2,9-dimethylimidazo[4,5-d][1]benzazepin-6(1H)-yl)- (CA INDEX NAME)

IT	877858-24-7P	877858-25-8P	877858-98-5P
	877858-99-6P	877859-00-2P	877859-01-3P
	877859-02-4P	877859-03-5P	877859-41-1P
	877859-42-2P	877859-44-4P	877859-45-5P
	877859-46-6P	877859-49-9P	877859-50-2P
	877859-51-3P		

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of tetraaza-benzo[f]azulenes as vasopressin VIa antagonists)

RN 877858-24-7 CAPLUS

CN Methanone, (4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)y1)phenyl- (CA INDEX NAME)

RN 877858-25-8 CAPLUS

CN Methanone, [4,5-dihydro-2-methyl-1-(phenylmethyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]phenyl- (CA INDEX NAME)

RN 877858-98-5 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[3-[4-[4,5-dihydro-2-methyl-1-(phenylmethyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-fluorophenoxy]propyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

PAGE 2-A

- RN 877858-99-6 CAPLUS
- NN o'/505-99-9 CAPLOS
 O(N Methanone, [4,5-dihydro-2-methyl-1-(phenylmethyl)imidazo[4,5-di][]benzazepin-6(1H)-yl][3-fluoro-4-[3-(1-piperazinyl)propoxy]phenyl]-, hydrochloride (1:2) (CA INDEX NAME)

PAGE 2-A



●2 HC1

- RN 877859-00-2 CAPLUS
- 8N 8//859-00-2 CAPLOS
 Of Methanone, (4,5-dihydro-2-methyl-1-(phenylmethyl)imidazo[4,5-d][]benzazepin-6(1H)-yl][4-[3-14-(3,3-dimethylbutyl)-1-piperazinyl]propoxyl]-3-fluorophenyl]- (CA INDEX NAME)

PAGE 2-A

RN 877859-01-3 CAPLUS

NN 07/03/2013 CREWO 1Pjeerazinecarboxylic acid, 4-[3-[4-[[4,5-dihydro-2-methyl-1-(phenylmethyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2methylphenoxylpropyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

PAGE 2-A

- RN 877859-02-4 CAPLUS
- NN 6/7639-02-4 CAFBOS
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PAGE 2-A



●2 HC1

- RN 877859-03-5 CAPLUS
- NN 8//859-03-5 CAPLOS
 Note: A section of the s

PAGE 2-A

RN 877859-41-1 CAPLUS

CN Carbamic acid, [[4-[(4,5-dihydro-2-methyl-6H-oxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-2-methylphenyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

- RN 877859-42-2 CAPLUS
- CN Methanone, [4-(aminomethyl)-3-methylphenyl](4,5-dihydro-2-methyl-6H-oxazolo[4,5-d][1]benzazepin-6-yl)-, hydrochloride (1:1) (CA INDEX NAME)

- HCl
- RN 877859-44-4 CAPLUS
- CN Benzonitrile, 4-[[4,5-dihydro-2-methyl-1-(phenylmethyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-methyl- (CA INDEX NAME)

- RN 877859-45-5 CAPLUS
- CN Methanone, [4-(aminomethyl)-3-methylphenyl][4,5-dihydro-2-methyl-1-(phenylmethyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]- (CA INDEX NAME)

- RN 877859-46-6 CAPLUS
- CN Cyclopropanecarboxamide, N-[[4-[[4,5-dihydro-2-methyl-1-(phenylmethyl)]] (Chenylmethyl) midaco[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-methylphenyl]methyl]- (CA INDEX NAME)

PAGE 2-A



RN 877859-49-9 CAPLUS

CN Benzonitrile, 4-[[9-chloro-1-(4-cyano-3-methylbenzoy1)-4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-methyl- (CA INDEX NAME)

CN

PAGE 2-A

RN 877859-50-2 CAPLUS

CN Benzonitrile, 4-[(9-chloro-4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]-2-methyl- (CA INDEX NAME)

- RN 877859-51-3 CAPLUS
- CN Methanone, [4-(aminomethyl)-3-methylphenyl](9-chloro-4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)- (CA INDEX NAME)

- OS.CITING REF COUNT:
- 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)
- REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 28 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:167754 CAPLUS

DOCUMENT NUMBER: 144:254156

TITLE: Preparation of heterocyclic condensed compounds useful

as antidiuretic agents
PATENT ASSIGNEE(S): Ferring B.V., Neth.
SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PA	TENT			KIN	KIND DATE				APPL	ICAT	ION	DATE							
WO	2006				A1										20050818 , BZ, CA, CH,				
	W:																		
											EC, JP,								
											MG,								
											RO,								
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EP	1627				A1			0222		EP 2	2004-	1040	06		2	0040	820		
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											TR.							HR	
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	2005	2738	75		B2		2009	0827											
	2567	782			A1		2006	0223		CA 2	2005-	2567	782		2	0050	818		
EP	1778	677			A1		2007	0502		EP 2	2005-	7817	46		2	0050	818		
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											PT,								
	1968				A		2007	0523		CN 2	2005-	8001	9297		2	0050	818		
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	4570				T		2010	0215		AT 2	2005-	7817	46		2	0050	818		
	1778	677			E		2010	0317		PT 2	2005-	7817	46		2	0050	818		
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	2006																		
	2007		61		A		2007	0309		KR 2	2007-	7002	387		2	0070	130		
	8773				B1		2009	0107							_				
	2007		61		A		2007	0424		MX 2	2007-	1861			2	0070	215		
	1100				A1		2010	0820		HK 2	2007-	1083	86		2	0070	801		
	2008				A1		2008	0925											
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										US 2	2004-	6028	9UP		r 2	0040	820		
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): CASREACT 144:254156; MARPAT 144:254156

AB The title compds. I |W = N, CR4; X = O, S, C(O), etc.; Gl = bicyclic or tricyclic fused azepine; Rl, R2 = H, halo, alkyl, etc.; R3 = H, alkyl; R4-R7 = H, halo, alkyl, etc.; a = 1-3] which are vasopressin V2 receptor agonists, were prepared and formulated. E.g., a multi-step synthesis of II, starting from 1,2-difluoro-3-nitrobenzene and β-alanine Me ester hydrochloride, was given. V2 receptor agonist activity was determined for all compds. and all the compds. I cause significant cellular activation at 30 µM or less. Pharmaceutical compns. of the compds. I are useful as antidiuretic agents.

IT 877230-00-7P

Ι

TT

- RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 - (preparation of heterocyclic condensed compds. useful as antidiuretic agents)
- RN 877230-00-7 CAPLUS
- CN 1(2H)-Quinoxalinecarboxamide, N-[[4-[(4,5-dihydro-6H-thieno[3,2-d][1]]benzazepin-6-yl)carbonyl]-2-methylphenyl]methyl]-8-fluoro-3,4-dihydro-3-oxo (CA INDEX NAME)

10/565,702

PAGE 1-A

PAGE 2-A

N C

OS.CITING REF COUNT:

REFERENCE COUNT:

- 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 - THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 29 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:1026867 CAPLUS

DOCUMENT NUMBER: 143:319140

TITLE: Methods and compositions related to regulation of cytokine production by glycogen synthase kinase 3

(GSK-3)

INVENTOR(S): Martin, Michael

PATENT ASSIGNEE(S): The Uab Research Foundation, USA

SOURCE: PCT Int. Appl., 70 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA'	PATENT NO.						KIND DATE			APPI	LICAT		DATE					
	2005	0868	14					20050922 20061102			2005-	US75		20050309				
	W:	AE, CN, GE, LK, NO, SY, BW, AZ, EE, RO,	AG, CO, GH, LR, NZ, TJ, GH, BY, ES, SE,	AL, CR, GM, LS, OM, TM, GM, KG, FI, SI,	AM, CU, HR, LT, PG, TN, KE, KZ, FR, SK,	AT, CZ, HU, LU, TR, LS, MD, GB, TR,	AU, DE, ID, LV, PL, TT, MW, RU, GR,	AZ, DK, IL, MA, PT, TZ, MZ, TJ,	DM, IN, MD, RO, UA, NA, TM, IE,	DZ IS MG RU UG SD AT IS	, BG, , EC, , JP, , MK, , SC, , US, , SL, , BE, , IT, , CI,	EE, KE, MN, SD, UZ, SZ, BG, LT,	EG, KG, MW, SE, VC, TZ, CH, LU,	ES, KP, MX, SG, VN, UG, CY, MC,	FI, KR, MZ, SK, YU, ZM, CZ, NL,	GB, KZ, NA, SL, ZA, ZW, DE, PL,	GD, LC, NI, SM, ZM, AM, DK, PT,	Zī
US PRIORIT	2008 Y APP	0175	923		TD, Al		2008	0724		US 3	2006- 2004- 2005-	5516	46P		P 2	0060 0040 0050	309	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB This invention relates generally to a method of treating inflammation and associated diseases and disorders by administering an agent that inhibits glycogen synthase kinase 3 activity.

I 676596-65-9, 1-Azakenpaullone

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(methods and compns. related to regulation of cytokine production by inhibitors of glycogen synthase kinase 3 for treatment of inflammation) 676596-65-9 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-bromo-7,12-dihydro- (CA INDEX NAME)

RN

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 30 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:471945 CAPLUS

DOCUMENT NUMBER: 143:13343

TITLE: 1-Thia-3-azadibenzo[e,h]azulene pharmaceuticals for the treatment of central nervous system diseases

INVENTOR(S): Mercep, Mladen; Mesic, Milan; Modric, Marina; Pesic,
Dijana; Kidemet, Davor

PATENT ASSIGNEE(S): Pliva-Istrazivacki Institut D.O.O., Croatia

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	PATENT NO.						KIND DATE					ICAT								
						A1		2005	0602					20041119						
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,		
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,		
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,		
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,		
			NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,		
			TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW		
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			AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,		
			EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IS,	IT,	LU,	MC,	NL,	PL,	PT,	RO,		
			SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,		
			NE,	SN,	TD,	TG														
	HR	2003	0009	57		A2		2005	0831		HR 2	2003-	957			2	0031	121		
	ΕP	1684	751			A1	2006	0802		EP 2	2004-	7987	34	20041119						
	EP	1684	751			B1		2007	0912											
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,		
			ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	PL,	SK,		
			HR,	IS,	YU															
	JP	2007	5123	09		T		2007	0517		JP 2	2006-	5406	32		2	0041	119		
	AT 372771					T		2007	0915		AT 2	2004-	7987	34	20041119					
	ES	2291	960			T3 A1		2008	0301		ES 2	2004-	7987	34			0041			
	US 20070078123							2007	0405		US 2	2006-	5959		20060811					
PRIOR	IORITY APPLN. INFO.:										HR 2	2003-	957		A 20031121					
											WO 2	2004-	HR55		1	W 2	0041	119		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 143:13343

AB The present invention relates to the use of derivs. from the group of l-thia-3-azadibenzo[e,h]azulenes and of their salts and solvates for the manufacture of a pharmaceutical formulation for the treatment and prevention of diseases, damages and disorders of the central nervous system (CNS) caused by disorders of the neurochem. equilibrium of biogenic amines or other neurotransmitters.

IT 852461-60-0

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(thia-azadibenzoazulene pharmaceuticals for treatment of central nervous system diseases)

RN 852461-60-0 CAPLUS

CN Ethanone, 1-[2-(4-pyridiny1)-8H-dibenzo[b,f]thiazolo[4,5-d]azepin-8-y1]-(CA INDEX NAME) 10/565,702

- OS.CITING REF COUNT:
- REFERENCE COUNT:
- THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
- THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 31 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:220132 CAPLUS

DOCUMENT NUMBER: 142:298092

TITLE: Preparation of azepino[4,5-b]indole derivatives as

modulators of nuclear receptors

INVENTOR(S): Busch, Brett; Flatt, Brenton T.; Gu, Xiao-Hui; Martin,

Richard; Mohan, Raju; Wang, Tie-Lin; Wu, Jason H.

PATENT ASSIGNEE(S): X-Ceptor Therapeutics Inc., USA; Exelixis, Inc.

SOURCE: U.S. Pat. Appl. Publ., 106 pp., Cont.-in-part of U.S.

Ser. No. 447,302. CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2 PATENT INFORMATION:

PATENT NO.					KIN	D	DATE				LICAT:		DATE					
	2005						2005				2003-							
US	7595	311			B2		2009	0929										
US	2004	0023	947		A1		2004	0205		US	2003-	1473	02		20030527			
US	7485	634			B2		2009	0203										
AU	2004	2971	98		A1		2005	0623		AU	2004-2		2	0041	201			
CA	2555	279			A1					CA	2004-1		2	0041	201			
WO	2005	0565	54		A2		2005	0623		WO	2004-U		2004120 2004120 2004120					
WO	2005	0565	54		A3	A3 20050818												
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BE	, BG,	BR,	BW,	BY,	BZ,	CA,	C	
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	D2	, EC,	EE,	EG,	ES,	FI,	GB,	G:	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS	, JP,	KE,	KG,	KP,	KR,	KZ,	L	
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG	, MK,	MN,	MW,	MX,	MZ,	NA,	N	
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU	, SC,	SD,	SE,	SG,	SK,	SL,	S	
		TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US	, UZ,	VC,	VN,	YU,	ZA,	ZM,	Z	
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SE	, SL,	SZ,	TZ,	UG,	ZM,	ZW,	A	
		AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	ΑI	, BE,	BG,	CH,	CY,	CZ,	DE,	D	
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,	IS	, IT,	LT,	LU,	MC,	NL,	PL,	P	
		RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG	, CI,	CM,	GA,	GN,	GQ,	GW,	М	
		MR,	NE,	SN,	TD,	TG												
EΡ	1692	136			A2		2006	0823		EΡ	2004-1	3127	95		2	0041	20	
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GF	, IT,	LI,	LU,	NL,	SE,	MC,	P	
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	ΑL	, TR,	BG,	CZ,	EE,	HU,	PL,	S	
		BA,	HR,	IS,	YU													
CN	1914 2004	207			A		2007	0214		CN	2004-8	3004	1235		2	0041	20	
BR	2004	0172	60		A		2007	0306		BR	2004-3		2004120					
JΡ	2007	5131	68		T		2007	0524		JΡ	2006-5		2	0041	20			
NZ	5481	79			A		2009	1127		NZ	2004-5	5481		2	0041	20		
z_{A}	5481 2006 2006 2006 2006	0043	52		A		2008	1231		ZA	2006-6	1352		2	0060	52		
MX	2006	0061	40		A		2006	1110		MX	2006-6	5140			2	0060	53	
IN	2006	KN01	497		A		2007	0504			2006-1							
KR	2006	1246	62		A		2006	1205			2006-							
NO	2006	0030	80		A		2006	0823		NO 2006-3080								
US	2009	0326	218		A1		2009	1231		US	2009-	3622	69		2	0090	12	
US	2010	0173	824		A1		2010	0708		US	2009-	3354	53		- 2	0090	80	
RIT	Y APP	LN.	INFO	. :						US	2002-3	3835	74P		P 2	0020	52	
											2003-							
											2003-							
										MO	2004-U	10.10	352		W 2	0041	20	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S):

CASREACT 142:298092; MARPAT 142:298092

The title compds. (I) [R1 = -C(J)OR14, -C(J)SR14, (un)substitutedAB -C(J)NH2; J = O, S, (un)substituted NH; R2 = H, halo, (un)substituted alkyl; R3 = -C(0)R9; R4, R5, R6 and R7 are together selected from (a), (b), etc. below: (a) R4, R5 = H or halo and R6, R7 = halo, each (un) substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, heterocyclyl, heterocyclylalkyl, aryl, aralkyl, heteroaryl, or heteroaralkyl, etc.; or R6 and R7, together with the carbon atom to which they are attached, form each (un)substituted cycloalkyl, heterocyclyl, cycloalkenyl, alkylidene, cycloalkylidene, heterocyclylidene, aralkylidene or substituted heteroaralkylidene; (b) R4, R5 = halo, each (un) substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, heterocyclyl, heterocyclylalkyl, aryl, heteroaryl, or heteroaralkyl, etc.; or R4 and R5, together with the carbon atom to which they are attached, form (un) substituted cycloalkyl, heterocyclyl, cycloalkenyl, alkylidene, cycloalkylidene, heterocyclylidene, aralkylidene or heteroaralkylidene, and R6, R7 = H or halo; R8a, R8b, R8c, R8d = H, halo, pseudohalo, cyano, azido, amidino, guanidino, each (un) substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, heterocyclyl, heterocyclylalkyl, aryl, aralkyl, heteroaryl, or heteroaralkyl, etc.; R14 = each (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, heterocyclyl, heterocyclylalkyl, etc.] are prepared These compds. modulate nuclear receptors, in particular farnesoid X receptor and are agonists, partial agonists, inverse agonists, partial antagonists, or antagonists of farnesoid X receptor. They are useful for the treatment, prevention, or amelioration of one or more symptoms of disease or disorder directly or indirectly related to the activity of the above receptors, including hyperlipidemia, hypercholesterolemia, hypertriglyceridemia, dyslipidemia, lipodystrophy, atherosclerosis, atherosclerotic disease, atherosclerotic disease events, atherosclerotic cardiovascular disease, Syndrome X, diabetes mellitus, type II diabetes, insulin insensitivity, hyperglycemia, cholestasis and obesity. Thus, to a solution of Et 1,2,3,6-tetrahydroazepino[4,5-b]indole-5-carboxylate (52 mg, 0.2 mmol) in CH2C12 was added 4-fluorobenzoyl chloride (36 µL, 0.2 mmol) and TEA (56 μL, 0.4 mmol) and the mixture was shaken overnight at 20°, treated with Trisamine resin (50 mg), and shaken for 2 h at 20°. The resin was removed by filtration through a Florisil cartridge. Evaporation of solvent gave a crude product, which was purified by trituration with methanol to give Et 3-(4-fluorobenzoyl)-1,2,3,6-tetrahydroazepino[4,5-b]indole-5carboxylate. Et 3-(3,4-difluorobenzoyl)-1-methyl-1,2,3,6tetrahydroazepino[4,5-b]indole-5-carboxylate was administered daily by oral gage for 7 days to young adult male mice. Plasma total cholesterol and triglyceride levels were significantly lowered.

IT 629664-84-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of azepino[4,5-b]indole derivs. as modulators of nuclear receptors, in particular farnesoid X receptor)
629664-84-2 CAPLUS

RN 629664-84-2 CAPLUS
CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopentane]-5-carboxylic acid,
3.6-dihydro-, ethyl ester (CA INDEX NAME)

IT 629663-80-5P 629664-83-1P 847865-38-7P 847865-39-8P 847865-40-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of azepino[4,5-b]indole derivs. as modulators of nuclear receptors, in particular farnesoid X receptor)

RN 629663-80-5 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),2'-[1,3]dioxolane]-5-carboxylic acid, 3-(4-fluorobenzovl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 629664-83-1 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopentane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 847865-38-7 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclobutane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 847865-39-8 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopropane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 847865-40-1 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopropane]-5-carboxylic acid, 3-(3,4-difluorobenzoyl)-3,6-dihydro-, 1-methylethyl ester (CA INDEX NAME)

OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

L28 ANSWER 32 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:99333 CAPLUS

DOCUMENT NUMBER: 142:198048

TITLE: Azepine derivatives as pharmaceutical agents, specifically as farnesoid X receptor ligands, and

their preparation, pharmaceutical compositions, and

use in the treatment of lipid disorders,

atherosclerosis, and diabetes Martin, Richard; Wang, Tie-Lin; Flatt, Brenton T.; Gu, INVENTOR(S):

Xiao-Hui

PATENT ASSIGNEE(S): X-Ceptor Therapeutics Inc., USA

SOURCE: PCT Int. Appl., 133 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

													DATE				
												20040723					
					A3 20060302												
	W:	AE.	AG.	AL.	AM.	AT.	AU,	AZ.	BA.	BB.	BG.	BR.	BW.	BY.	BZ.	CA.	CH.
							DE,										
							ID,										
							LV.										
		NO.	NZ.	OM.	PG.	PH.	PL,	PT.	RO.	RU.	SC.	SD.	SE.	SG.	SK.	SL.	SY,
							TZ.										
	RW:	BW,	GH,	GM,	KE,	LS.	MW.	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		AZ.	BY.	KG.	KZ.	MD.	RU,	TJ.	TM.	AT.	BE.	BG.	CH.	CY.	CZ.	DE.	DK.
							GR,										
		SI,	SK,	TR.	BF.	BJ,	CF.	CG.	CI.	CM,	GA,	GN,	GO,	GW,	ML,	MR.	NE,
		SN,	TD,	TG													
AU	2004	2590	09		A1		2005	0203	- 1	AU 2	004-	2590	09		2	0040	723
	2532																
EP	1648	408			A1		2006	0426	1	EP 2	004-	7790	04		2	0040	723
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
							RO,										
BR	2004	0122	62		A		2006	0919	1	BR 2	004-	1226	2		2	0040	723
CN	1852	748			A		2006	1025		CN 2	004-	8002	7076		2	0040	723
JP	2006	5286	37		T		2006	1221		JP 2	006-		20040723 20040723 20040723				
KR	2006 2006 2006	0528	67		A		2006	0519	1	KR 2	006-	7015	66		2	0060	123
MX	2006	0008	75		A		2006	0907	1	MX 2	006-	875			2	0060	123
NO	2006	0008	71		A		2006	0424	1	NO 2	006-	871			2	0060	222
US	2007	0015	746		A1												
ORITY	APP	LN.	INFO	. :			2007		1	US 2	003-	4898	54P		P 2	0030	723

CASREACT 142:198048; MARPAT 142:198048 OTHER SOURCE(S):

GI

- AB Compds., compns., and methods are provided for modulating the activity of farnesoid X receptors, and for the treatment, prevention, or amelioration of one or more symptoms of diseases or disorders related to the activity of the receptors. In particular, compds. I are disclosed [wherein: X = 0, S(O)0-2, NH or its alkyl, acylated, oxyacylated, or sulfonylated derivs.; Y = (un)substituted CH or N; Z = (un)substituted CH or N; or YZ bond is fused to a carbo- or heterocyclic ring, but not benzo or naphtho; R1, R2, R4-R7 = H, halo, (un)substituted alk(en/yn)yl, (hetero)aryl, numerous functional groups; R3 = H, (un)substituted alk(en/yn)yl, (hetero)aryl, numerous functional groups; R4R5 and/or R6R7 may form oxo, thioxo, (un) substituted imino or oxime or hydrazone, or an exocyclic double bond; or R4R5, R4R6, R4R7, R5R6, R5R7, and/or R6R7 may form ring(s); including isomer(s), solvates, polymorphs, prodrugs, and pharmaceutically acceptable salts]. Fifteen synthetic examples and several biol. examples are given. For instance, thiophene-3-acetonitrile was converted to invention compound II in four steps: (1) di-α-methylation using NaH and MeI in DMF; (2) reduction of the nitrile to a primary amine using LiAlH4; (3) cyclocondensation of the amine with Et bromopyruvate to form the azepine ring; and (4) N-acylation using 3,4-difluorobenzoyl chloride. II exhibited agonist activity at 100 nM or less, with > 100% efficacy (vs. CDCA), as measured in a co-transfection assay using full length human farnesoid X receptor.
- IT 837429-84-2P, 3,6,7,8-Tetrahydroimidazo[4,5-d]azepine-4-carboxylic acid ethyl ester
 - RL: PAČ (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 - (drug candidate; preparation of azepine derivs. as farnesoid X receptor ligands for treatment of lipid disorders, atherosclerosis, and diabetes)
- RN 837429-84-2 CAPLUS
- CN Imidazo[4,5-d]azepine-4-carboxylic acid, 3,6,7,8-tetrahydro-, ethyl ester (CA INDEX NAME)

837429-85-3P, 6-(4-Fluorobenzoy1)-3,6,7,8-tetrahydroimidazo[4,5d]azepine-4-carboxylic acid ethyl ester 837429-86-4P, 6-(3,4-Difluorobenzoyl)-5,6-dihydro-4H-thieno[2,3-d]azepine-8-carboxylic acid ethyl ester 837429-88-6P, 3-(4-Fluorobenzoy1)-1,2,3,6,7,8,9,10-octahydroazepino[4,5-b]indole-5carboxylic acid ethyl ester 837429-89-7P, 3-(4-Fluorobenzoyl)-1,1-dimethyl-1,2,3,6,7,8,9,10-octahydroazepino[4,5b]indole-5-carboxylic acid ethyl ester 837429-90-0P, 6-(3,4-Difluorobenzovl)-4,4-dimethyl-5,6-dihydro-4H-thieno[2,3-d]azepine-8carboxvlic acid ethvl ester 837429-91-1P, 6-(3,4-Difluorobenzoyl)-4,4-dimethyl-1,4,5,6-tetrahydropyrrolo[2,3d]azepine-2,8-dicarboxylic acid diethyl ester 837429-92-2P, 6-(3,4-Difluorobenzoyl)-4,4-dimethyl-1,4,5,6-tetrahydropyrrolo[2,3d]azepine-2,8-dicarboxylic acid 2-ethyl ester 8-isopropyl ester 837429-93-3P, 6-(3,4-Difluorobenzov1)-1,4,4-trimethv1-1,4,5,6tetrahydropyrrolo[2,3-d]azepine-2,8-dicarboxylic acid 2-ethyl ester 8-isopropyl ester RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (drug candidate; preparation of azepine derivs. as farnesoid X receptor

ligands for treatment of lipid disorders, atherosclerosis, and diabetes) 837429-85-3 CAPLUS

RN 837429-85-3 CAPLUS CN Imidazo[4.5-d]azepi

Imidazo[4,5-d]azepine-4-carboxylic acid,
6-(4-fluorobenzoyl)-3,6,7,8-tetrahydro-, ethyl ester (CA INDEX NAME)

6-(4-illorodenzoyi)-3,6,7,8-tetranyaro-, etnyi ester (CA INDEX NAME

RN 837429-86-4 CAPLUS

4H-Thieno[2,3-d]azepine-8-carboxylic acid, 6-(3,4-difluorobenzoyl)-5,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 837429-88-6 CAPLUS

CN Azepino[4,5-b]indole-5-carboxylic acid, 3-(4-fluorobenzoyl)-1,2,3,6,7,8,9,10-octahydro-, ethyl ester (CA INDEX NAME)

RN 837429-89-7 CAPLUS

CN Azepino[4,5-b]indole-5-carboxylic acid, 3-(4-fluorobenzoyl)-1,2,3,6,7,8,9,10-octahydro-1,1-dimethyl-, ethyl ester (CA INDEX NAME)

RN 837429-90-0 CAPLUS CN 4H-Thieno[2,3-d]aze

4H-Thieno[2,3-d]azepine-8-carboxylic acid, 6-(3,4-difluorobenzoyl)-5,6-dihydro-4,4-dimethyl-, ethyl ester (CA INDEX NAME)

RN 837429-91-1 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid,
6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-4,4-dimethyl-, 2,8-diethyl
ester (CA INDEX NAME)

RN 837429-92-2 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzol)-1,4,5,6-tetrahydro-4,4-dimethyl-, 2-ethyl 8-(1-methylethyl) ester (CA INDEX NAME)

RN 837429-93-3 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 6-(3,4-difluorobenzoyl)-1,4,5,6-tetrahydro-1,4,4-trimethyl-, 2-ethyl 8-(1-methylethyl) ester (CA INDEX NAME)

IT 837429-95-95, 5,6-Dihydro-4H-thieno[2,3-d]azepine-8-carboxylic acid ethyl ester 837429-96-6P, 4,4-Dimethyl-5,6-dihydro-4H-thieno[2,3-d]azepine-8-carboxylic acid ethyl ester 837430-02-1P, 4,4-Dimethyl-1,4,5,6-tetrahydropyrrolo[2,3-d]azepine-2,8-dicarboxylic acid diethyl ester 837430-03-2P, 4,4-Dimethyl-1,4,5,6-tetrahydropyrrolo[2,3-d]azepine-2,8-dicarboxylic acid 2-ethyl ester 8-isopropyl ester 837430-05-4P, 1,4,4-Trimethyl-1,4,5,6-tetrahydropyrrolo[2,3-d]azepine-2,8-dicarboxylic acid 2-ethyl ester 8-isopropyl ester Ri: RCT (Reactantl); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
 (intermediate; preparation of azepine derivs. as farnesoid X receptor
 ligands for treatment of lipid disorders, atherosclerosis, and
 diabetes)

- RN 837429-95-5 CAPLUS
- CN 4H-Thieno[2,3-d]azepine-8-carboxylic acid, 5,6-dihydro-, ethyl ester (CA INDEX NAME)

- RN 837429-96-6 CAPLUS
- CN 4H-Thieno[2,3-d]azepine-8-carboxylic acid, 5,6-dihydro-4,4-dimethyl-, ethyl ester (CA INDEX NAME)

RN 837430-02-1 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 1,4,5,6-tetrahydro-4,4-dimethyl-,2,8-diethyl ester (CA INDEX NAME)

RN 837430-03-2 CAPLUS CN Pyrrolo[2,3-d]azepi:

Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid, 1,4,5,6-tetrahydro-4,4-dimethyl-, 2-ethyl 8-(1-methylethyl) ester (CA INDEX NAME)

RN 837430-05-4 CAPLUS

CN Pyrrolo[2,3-d]azepine-2,8-dicarboxylic acid,
 1,4,5,6-tetrahydro-1,4,4-trimethyl-, 2-ethyl 8-(1-methylethyl) ester (CA INDEX NAME)

10/565,702

- OS.CITING REF COUNT:
- REFERENCE COUNT:
- THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
- 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 33 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:902218 CAPLUS

DOCUMENT NUMBER: 141:400891

TITLE: Drug for nerve regeneration containing glycogen

synthase kinase-3 inhibitors

INVENTOR(S): Morishita, Tsuyoshi; Sakurada, Kazuhiro; Suzuki,

Keiko; Ikeda, Shunichi

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE: PCT Int. Appl., 115 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

F	PAT	ENT I	. OV			KIN	D	DATE				ICAT		DATE					
Ţ							A1 20041028							20040416					
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	
			NO.	NZ.	OM,	PG.	PH.	PL,	PT.	RO,	RU.	SC.	SD,	SE,	SG.	SK.	SL,	SY,	
			TJ.	TM.	TN.	TR.	TT.	TZ,	UA.	UG.	US.	UZ.	VC.	VN.	YU.	ZA.	ZM.	ZW	
		RW:						MW,											
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(A1		2004	1028		CA 2	004-	2522	20040416					
F	ΣP.	1645	286			A1		2006	0412		EP 2	004-	7280						
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(וזי	1774						2006			CN 2					2	0040	416	
	US 20060217368										US 2								
	PRIORITY APPLN. INFO.:							2000	0520		JP 2								
11/101/1	INIONIII MILBN. INFO										WO 2								
											110 2	004 1	01 33	" 20040410					

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT MARPAT 141:400891 OTHER SOURCE(S):

It is intended to provide a drug for nerve degeneration, a nerve stem cell neurogenesis promoter, a neuron obtained by culturing a nerve stem cell in the presence of the neurogenesis promoter, and a method of producing the neuron. To achieve the above objects, a drug for nerve degeneration which contains as the active ingredient a substance inhibiting the activity of a glycogen synthase kinase-3, a nerve stem cell neurogenesis promoter containing this substance as the active ingredient, a neuron obtained by culturing a nerve stem cell in the presence of the neurogenesis promoter, and a method of producing the neuron are provided. The above-described drugs are useful as remedies for nerve diseases such as Parkinson's disease, Alzheimer's disease, Down's disease, cerebrovascular disorder, cerebral stroke, spinal injury, Huntington's chorea, multiple sclerosis, amyotrophic lateral sclerosis, epilepsy, anxiety disorder, integration dysfunction syndrome, depression and manic-depressive. The effects of lithium chloride, Kenpaullone, indirubin-3'-monoxime, and short interference RNA (siRNA) on neurogenesis promotion were in vitro tested. Also, a tablet SB-216763 5 mg/100 mg tablet was formulated. 252894-50-1

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (glycogen synthase kinase-3 inhibitors for nerve regeneration)

RN 252894-50-1 CAPLUS

CN Pyrido[3',2':4,5]pyrrolo[3,2-d][1]benzazepin-6(5H)-one, 7,12-dihydro- (CA INDEX NAME)

OS.CITING REF COUNT:

- THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
- REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 34 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:848383 CAPLUS

DOCUMENT NUMBER: 142:6329

TITLE: Synthesis of the sterically fixed biliverdin derivative bearing the Z-anti C/D-ring component AUTHOR(S): Hammam, Mostafa A. S.; Murata, Yasue; Kinoshita,

Hideki; Inomata, Katsuhiko

CORPORATE SOURCE: Division of Material Sciences, Graduate School of Natural Science and Technology, Kanazawa University,

Kanazawa, 920-1192, Japan

SOURCE: Chemistry Letters (2004), 33(10), 1258-1259

CODEN: CMLTAG; ISSN: 0366-7022 PUBLISHER: Chemical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE . English

OTHER SOURCE(S): CASREACT 142:6329

Mρ CH₂ Me Me Н Me OH OH

A sterically locked biliverdin derivative I was synthesized by developing an efficient method for the preparation of Z-anti C/D-ring component toward investigation of the stereochem, and function of the phytochrome chromophores.

Ι

IT 797050-86-3P

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis of the sterically fixed biliverdin derivative bearing the Z-anti C/D-ring component)

RN 797050-86-3 CAPLUS

Dipyrrolo[1,2-a:2',3'-d]azepine-3-propanoic acid, CN 8-ethyl-2-formyl-1,4,5,7-tetrahydro-9-methyl-7-oxo-, 2-propen-1-yl ester

797050-93-2P

(CA INDEX NAME)

$$\begin{array}{c} \text{H}_2\text{C} = \text{CH} - \text{CH}_2 - \text{O} - \text{C} - \text{CH}_2 - \text{CH}_2 \\ \text{OHC} \\ \text{HN} \end{array} \quad \begin{array}{c} \text{OHC} \\ \text{Me} \end{array}$$

RN 797050-93-2 CAPLUS

ON Dipyrrolo[1,2-a;2',3'-d]azepine-3-propanoic acid, 2-[(1,1-dimethylethoxy)carbonyl]-8-ethyl-1,4,5,7-tetrahydro-9-methyl-7-oxo-,2-propen-1-yl ester (CA INDEX NAME)

$$\begin{array}{c} \text{H}_2\text{C} = \text{CH} - \text{CH}_2 - \text{O} - \text{C} - \text{CH}_2 - \text{CH}_2 \\ \\ \text{t} - \text{BuO} - \text{C} \\ \\ \text{HN} \end{array} \qquad \begin{array}{c} \text{O} \\ \text{N} \\ \text{Me} \end{array}$$

OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 35 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:375983 CAPLUS

DOCUMENT NUMBER: 141:106415

TITLE: A new synthetic route to YM087, an arginine

vasopressin antagonist

AUTHOR(S): Tsunoda, Takashi; Tanaka, Akihiro; Mase, Toshiyasu;

Sakamoto, Shuichi

CORPORATE SOURCE: Chemical Technology Labs., Yamanouchi Pharmaceutical

Co., Ltd., Takahagi, 318-0001, Japan Heterocycles (2004), 63(5), 1113-1122

CODEN: HTCYAM; ISSN: 0385-5414
PUBLISHER: Japan Institute of Heterocyclic Chemistry

PUBLISHER: Japan Institute of Hete DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 141:106415

GI

SOURCE:

- AB A synthesis of N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-[1,1'-biphenyl]-2-carboxamide monohydrochloride (YM 087) (I) via imidazobenzazepine intermediates is described. This method remarkably improved the overall yield of I, compared to the original synthesis, providing a more safe, reliable, and cost-efficient approach to I. The key intermediate in this synthesis, based on retro-synthetic anal., was 1,4,5,6-tetrahydro-2-methyl-6-[(4-methylphenyl)sulfonyl]imidazo[4,5-d][l]benzazepine.
- 11 /1/91/=10=3P

RL: BYP (Byproduct); PREP (Preparation)

(byproduct from the preparation of methylimidazobenzazepine via tosylation of aminobenzoate followed by alkylation with chlorobutamenitrile, heterocyclization, hydrolysis, α -bromination, heterocyclization, and detosylation)

RN 717917-16-3 CAPLUS

CN 4H-Oxazolo[4,5-d][1]benzazepine, 5,6-dihydro-2-methyl-6-[(4methylphenyl)sulfonyl]- (CA INDEX NAME)

т

10/565,702

IT 182202-71-7P 195531-22-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of N-((phenylbenzoylamino)benzoyl]methylimidazobenzazepine via N-acylation of methylimidazobenzazepine with nitrobenzoic acid followed by reduction and amidation with biphenylcarboxylic acid)

RN 182202-71-7 CAPLUS

CN Methanone, (4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)(4-nitrophenyl)-, hydrochloride (1:1) (CA INDEX NAME)

- HC1
- RN 195531-22-7 CAPLUS
- CN Methanone, (4-aminophenyl)(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)- (CA INDEX NAME)

10/565,702

IT 318237-73-9P 717917-14-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of methylimidazobenzazepine via tosylation of aminobenzoate followed by alkylation with chlorobutanenitrile, heterocyclization, hydrolysis, α -bromination, heterocyclization, and detosylation in the preparation of YMO87)

RN 318237-73-9 CAPLUS

CN Imidazo[4,5-d][1]benzazepine, 1,4,5,6-tetrahydro-2-methyl- (CA INDEX NAME)

RN 717917-14-1 CAPLUS

CN Imidazo[4,5-d][1]benzazepine, 1,4,5,6-tetrahydro-2-methyl-6-[(4methylphenyl)sulfonyl]- (CA INDEX NAME) 10/565,702

- OS.CITING REF COUNT:
- REFERENCE COUNT:
- THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
- 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 36 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:117842 CAPLUS

DOCUMENT NUMBER: 140:152009

TITLE: Arginine vasopressin receptor antagonists containing

1,4,5,6-tetrahydroimidazo[4,5-d]benzazepine

derivatives

INVENTOR(S): Koshio, Hiroyuki; Kakefuda, Akio; Sato, Ippei; Wakayama, Ryutaro; Sanagi, Masanao

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

GI

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2004043456 A 20040212 JP 2003-141799 20030520
PRIORITY APPLN. INFO:: DATE
OTHER SOURCE(S): MARPAT 140:152009

R2

AB The invention provide pharmaceutical compds. I (ring D = phenylene, etc.; X,Y = CH, N; Rl, R2, R3 = H, OH, halo, lower alkyl) as arginine vasopressin receptor antagonists, suitable for treatment of cardiac failure and hyponatremia. A compound Nn[4-[2-(2-pyridyl]-1,4,5,6-tetrahydroimidazo[4,5-d][1]benzazepine-6-

Ι

carbonyl]phenyl]biphenyl-2-carboxamide (II) hydrochloride was prepared The compound showed antagonistic effect on VIA and V2 receptors without

inhibiting CYP3A4 enzyme in in vitro assay. An injection composition containing $\ensuremath{\text{II}}$

1 mg/mL was formulated.

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1222456-11-2
                 1222456-14-5
                                   1222456-17-8
1222456-19-0
                 1222456-21-4
                                   1222456-24-7
1222456-26-9
                 1222456-29-2
                                   1222456-31-6
1222456-33-8
                 1222456-35-0
                                   1222456-39-4
                                   1222456-46-3
1222456-41-8
                 1222456-43-0
1222456-48-5
                 1222456-51-0
                                   1222456-53-2
1222456-55-4
                 1222456-57-6
                                   1222456-60-1
1222456-63-4
                 1222456-65-6
                                   1222456-67-8
1222456-69-0
                 1222456-72-5
                                   1222456-74-7
1222456-75-8
                 1222456-78-1
                                   1222456-79-2
1222456-81-6
                 1222456-83-8
                                   1222456-85-0
1222456-87-2
                 1222456-89-4
                                   1222456-91-8
                                   1222456-99-6
1222456-93-0
                 1222456-96-3
1222457-01-3
                 1222457-04-6
```

RL: PRPH (Prophetic)

(Arginine vasopressin receptor antagonists containing

1,4,5,6-tetrahydroimidazo[4,5-d]benzazepine derivatives)

RN 1222456-11-2 CAPLUS CN [1.1'-Biphenv1]-2-ca

[1,1'-Bipheny1]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-

pyrazinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-2'-fluoro-(CA INDEX NAME)

RN 1222456-14-5 CAPLUS

[1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyrazinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-fluorophenyl]-(CA INDEX NAME)

CN

10/565,702

RN 1222456-17-8 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[6-[[4,5-dihydro-2-(2pyrazinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-pyridinyl]-(CA INDEX NAME)

RN 1222456-19-0 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[5-[[4,5-dihydro-2-(2-

pyraziny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]-2-pyridiny1](CA INDEX NAME)

RN 1222456-21-4 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyrazinyl)lmidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-hydroxyphenyl]-(CA INDEX NAB;

RN 1222456-24-7 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyrimidinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-2'-fluoro- (CA IMDEX NAME)

RN 1222456-26-9 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyrimidinylimidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-fluorophenyl]-(CA INDEX NAME) 10/565,702

RN 1222456-29-2 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[6-[[4,5-dihydro-2-(2-pyrimidinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-pyridinyl]-(CA INDEX NAME)

RN 1222456-31-6 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[5-[[4,5-dihydro-2-(2-

pyrimidiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]-2-pyridiny1](CA INDEX NAME)

RN 1222456-33-8 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyrimidinyl)imidaco[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2hydroxyphenyl]- (CA INDEX NAME)

RN 1222456-35-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(6-methyl-2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-2'-fluoro(CA INDEX NABE)

RN 1222456-39-4 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(6-methyl-2-pyridinyl)]midazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-fluorophenyl]-(CA INDEX NAME)

10/565,702

RN 1222456-41-8 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[6-[[4,5-dihydro-2-(6-methyl-2pyridinyl)|midazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-pyridinyl](CA INDEX NAME)

RN 1222456-43-0 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[5-[[4,5-dihydro-2-(6-methy1-2-

pyridiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]-2-pyridiny1](CA INDEX NAME)

RN 1222456-46-3 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(6-methyl-2pyridinyl)lmidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-hydroxyphenyl]-(CA INDEX NAB;

RN 1222456-48-5 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, 2'-chloro-N-[4-[[4,5-dihydro-2-(2pyridinyl]imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222456-51-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, 3'-chloro-N-[4-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222456-53-2 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyridinyl)]midazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-2'-hydroxy-(CA INDEX NAME)

RN 1222456-55-4 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-

HO.

pyridiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]pheny1]-3'-hydroxy-(CA INDEX NAME)

RN 1222456-57-6 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[2-(6-chloro-2-pyridinyl)-4,5dihydroimidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222456-60-1 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[4-[[4,5-dihydro-2-(5-methy1-2pyridinyl]imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222456-63-4 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-2'-fluoro-(CA INDEX NAME)

RN 1222456-65-6 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222456-67-8 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-4-pyridinyl]-(CA INDEX NAME)

RN 1222456-69-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[5-[[4,5-dihydro-2-(2-pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-pyridinyl]-(CA INDEX NAME)

RN 1222456-72-5 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-pyridinyl]-(CA INDEX NAME)

RN 1222456-74-7 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[6-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-pyridinyl]-(CA INDEX NAME)

RN 1222456-75-8 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-4-fluorophenyl]-(CA INDEX NAME)

RN 1222456-78-1 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyrimidinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

Page 486

RN 1222456-79-2 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyrazinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222456-81-6 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(6-methyl-2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

Page 487

RN 1222456-83-8 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2pyridiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]pheny1]-2'-fluoro-(CA INDEX NAME)

RN 1222456-85-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2pyridinyl)]midazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222456-87-2 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2-pyridiny1)]midazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]-3-pyridiny1]-(CA INDEX NAME)

RN 1222456-89-4 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyridinyl)]midazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-4-pyridinyl]-(CA INDEX NAME)

RN 1222456-91-8 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyridinyl)]midazo[4,5-d][]]benzazepin-6(1H)-yl]carbonyl]-3-pyridinyl]-(CA INDEX NAME)

RN 1222456-93-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-pyridinyl]-(CA INDEX NAME)

RN 1222456-96-3 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2pyridinyl)]midazo[4,5-d][]]benzazepin-6(1H)-yl]carbonyl]-3-fluorophenyl]-(CA INDEX NAME)

RN 1222456-99-6 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2-pyrimidiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]pheny1]- (CA INDEX NAME)

RN 1222457-01-3 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2pyrazinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222457-04-6 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[2-[[4,5-dihydro-2-(6-methyl-2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbonyl]phenyl]- (CA INDEX NAME)

IT 433263-22-0P 433263-34-4P 433263-38-8P 433263-40-2P 433263-48-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(arginine vasopressin receptor inhibitors containing 1,4,5,6-tetrahydroimidazo[4,5-d]benzazepine derivs.)

RN 433263-22-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NABE)

RN 433263-34-4 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(H)-yl]carbonyl]phenyl]-2'-fluoro-, hydrochloride (i:1) (CA INDEX NAME)

RN 433263-38-8 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[5-[[4,5-dihydro-2-(2-

pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-pyridinyl]-,
hydrochloride (1:1) (CA INDEX NAME)

RN 433263-40-2 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[6-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-pyridinyl]-, hydrochloride (1:1) (CA INDEX NAME)

RN 433263-48-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyridinyl)imidazo(4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-(phenylmethoxy)phenyl]- (CA INDEX NAME)

IT 433263-20-8P 433263-46-8P

RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(arginine vasopressin receptor inhibitors containing 1,4,5,6-tetrahydroimidazo[4,5-d]benzazepine derivs.)

RN 433263-20-8 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

RN 433263-46-8 CAPLUS

CN

[1,1"-81phenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyridinyl)]imidaco[4,5-d][]l]benzazepin-6(1H)-yl]carbonyl]-2-hydroxyphenyl]-, hydrochloride (1:1) (CA INDEX NAME)

IT 433263-24-2P 433263-26-4P 433263-28-6P 433263-32-2P 433263-42-4P 433263-51-5P

RN

CN

433263-53-7P 433263-55-9P 433263-58-2P 652987-18-3P 433263-58-2P 652987-18-3P RI: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (arginine vasopressin receptor inhibitors containing 1,4,5,6-tetrahydroimidazo[4,5-d]benzazepine derivs.) 433263-24-2 CAPLUS [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyrazinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

RN 433263-26-4 CAPLUS
CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(6-methyl-2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-,
hydrochloride (1:1) (CA INDEX NAME)

10/565,702

RN 433263-28-6 CAPLUS CN [1,1'-Biphenvl]-2-ca

[1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyrimiddinyl)imidazo[4,5-d][]]benzazepin-6(IH)-yl]carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

RN 433263-32-2 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-

pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-fluorophenyl]-, hydrochloride (1:1) (CA INDEX NAME)

RN 433263-42-4 CAPLUS CN

[1,1'-Bipheny1]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-hydroxyphenyl]-(CA INDEX NAME)

- RN 433263-51-5 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyridinyl)inidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-fluorophenyl]-(CA INDEX NAME)

- RN 433263-53-7 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-2'-fluoro-(CA INDEX NAME)

RN 433263-55-9 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[5-[[4,5-dihydro-2-(2pyridinyl)]midazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-pyridinyl]-(CA INDEX NAME)

RN 433263-58-2 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[6-[[4,5-dihydro-2-(2-

pyridiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]-3-pyridiny1](CA INDEX NAME)

RN 652987-18-3 CAPLUS CN [1,1'-Biphenyl]-2-c

[1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyridinyl)imidazo[4,5-d][]benzazepin-6(IIH-yl]carbonyl]phenyl]-, (22)-2-butenedioate (1:1) (CA INDEX NAME)

CM 1

CRN 433263-20-8 CMF C36 H27 N5 O2

Double bond geometry as shown.

CM 2 CRN 110-16-7 CMF C4 H4 O4

arginine vasopressin receptor inhibitors)
RN 433263-61-7 CAPLUS

CN Imidazo[4,5-d][1]benzazepine, 1,4,5,6-tetrahydro-6-[(4-methylphenyl)sulfonyl]-2-(2-pyridinyl)- (CA INDEX NAME)

RN 433263-65-1 CAPLUS CN Imidazo[4,5-d][1]benzazepine, 1,4,5,6-tetrahydro-2-(2-pyridiny1)- (CA INDEX NAME)

10/565,702

L28 ANSWER 37 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:1001979 CAPLUS

DOCUMENT NUMBER: 140:303559

TITLE: 1-Azakenpaullone is a selective inhibitor of glycogen

synthase kinase-3β

AUTHOR(S): Kunick, Conrad; Lauenroth, Kathrin; Leost, Maryse;

Meijer, Laurent; Lemcke, Thomas

CORPORATE SOURCE: Institut fur Pharmazeutische Chemie, Technische

Universitat Braunschweig, Braunschweig, 38106, Germany SOURCE: Bioorganic & Medicinal Chemistry Letters (2004),

14(2), 413-416

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 140:303559

AB Kenpaullone derivs. with a modified parent ring system were synthesized in order to develop kinase inhibitors with enhanced selectivity. Among the

novel structures, 1-azakenpaullone was found to act as a selective SGK-3B vs. CDK1 inhibitor. The charge distribution within the 1-azakenpaullone mol. is discussed as a possible explanation for the enhanced GSK-3B selectivity of 1-azakenpaullone compared to other

paullone derivs.

T 676596-60-4P, 4-Azakenpaullone 676596-65-9P,

1-Azakenpaullone

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and biol. activity of aza derivs. of kenpaullone as inhibitors of glycogen synthase kinase-3 β)

RN 676596-60-4 CAPLUS

CN Pyrido[2',3':2,3]azepino[4,5-b]indol-6(5H)-one, 9-bromo-7,12-dihydro- (CA INDEX NAME)

RN 676596-65-9 CAPLUS

CN Pyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one, 9-bromo-7,12-dihydro- (CA INDEX NAME)

10/565,702



OS.CITING REF COUNT:

- 57 THERE ARE 57 CAPLUS RECORDS THAT CITE THIS RECORD (58 CITINGS)
- REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 38 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:961357 CAPLUS

DOCUMENT NUMBER: 140:156741

TITLE: Evaluation and Comparison of 3D-QSAR CoMSIA Models for

CDK1, CDK5, and GSK-3 Inhibition by Paullones AUTHOR(S): Kunick, Conrad; Lauenroth, Kathrin; Wieking, Karen;

Xie, Xu; Schultz, Christiane; Gussio, Rick; Zaharevitz, Daniel; Leost, Marvse; Meijer, Laurent; Weber, Alexander; Jorgensen, Flemming S.; Lemcke,

CORPORATE SOURCE: Institut fuer Pharmazie, Abteilung fuer

Pharmazeutische Chemie, Universitaet Hamburg, Hamburg,

D-20146, Germany

SOURCE: Journal of Medicinal Chemistry (2004), 47(1), 22-36

CODEN: JMCMAR; ISSN: 0022-2623 PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 140:156741

With a view to the rational design of selective GSK-3B inhibitors.

3D-OSAR CoMSIA models were developed for the inhibition of the three serine/threonine kinases CDK1/cyclin B, CDK5/p25, and GSK-3β by compds. from the paullone inhibitor family. The models are based on the kinase inhibition data of 52 paullone entities, which were aligned by a docking routine into the ATP-binding cleft of a CDK1/cyclin B homol. model. Variation of grid spacing and column filtering were used during the optimization of the models. The predictive ability of the models was shown by a leave-one-out cross-validation and the prediction of an independent set of test compds., which were synthesized especially for this purpose. Besides paullones with the basic indolo[3,2-d][1]benzazepine core, the test set comprised novel thieno[3',2':2,3]azepino[4,5-b]indoles, pyrido[2',3':2,3]azepino[4,5-b]indoles, and a pyrido[3',2':4,5]pyrrolo[3,2-d][1]benzazepine. The best statistical values for the CoMSIA were obtained for the CDK1-models (r2 = 0.929 and q2 = 0.699), which were clearly superior to the models for CDK5 (r2 = 0.874 and q2 = 0.652) and GSK-3 (r2 = 0.871 and q2 = 0.554). 252894-50-1P, NSC 709128 654076-11-6P, NSC 716453 654076-12-7P, NSC 718541 654076-13-8P, NSC 719342

654076-17-2P, NSC 720311

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(evaluation and comparison of 3D-QSAR CoMSIA models for CDK1, CDK5, and GSK-3 inhibition by paullones)

252894-50-1 CAPLUS RN

CN Pyrido[3',2':4,5]pyrrolo[3,2-d][1]benzazepin-6(5H)-one, 7,12-dihydro- (CA INDEX NAME)

RN 654076-11-6 CAPLUS

CN Pyrido[2',3':2,3]azepino[4,5-b]indol-6(5H)-one, 7,12-dihydro-9-methoxy-(CA INDEX NAME)

RN 654076-12-7 CAPLUS

CN Pyrido[2',3':2,3]azepino[4,5-b]indol-6(5H)-one, 9-chloro-7,12-dihydro-(CA INDEX NAME)

RN 654076-13-8 CAPLUS

CN Pyrido[2',3':2,3]azepino[4,5-b]indol-6(5H)-one, 7,12-dihydro-9-(trifluoromethyl)- (CA INDEX NAME)

10/565,702

RN 654076-17-2 CAPLUS

CN Pyrido[2',3':2,3]azepino[4,5-b]indol-6(5H)-one, 7,12-dihydro-9-methyl-(CA INDEX NAME)

OS.CITING REF COUNT:

- 51 THERE ARE 51 CAPLUS RECORDS THAT CITE THIS RECORD (51 CITINGS)
- REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Page 509

L28 ANSWER 39 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:951028 CAPLUS

DOCUMENT NUMBER: 140:16715

TITLE: Preparation of azepinoindole and pyridoindole

derivatives as modulators of farnesoid X and/or orphan

nuclear receptors
INVENTOR(S): Martin, Richard; Wang, Tie-Lin; Flatt, Brenton Todd;

Gu, Xiao-Hui; Griffith, Ronald

PATENT ASSIGNEE(S): X-Ceptor Therapeutics, Inc., USA

SOURCE: PCT Int. Appl., 268 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.			KIND DATE			APPLICATION NO.											
WO	WO 2003099821			A1 20031204			WO 2003-US16767				20030527						
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,
		PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,
		TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW					
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
		KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
CA	2485	909			A1		2003	1204		CA 2	003-	2485	909		2	0030	527
AU	2003	2433	28		A1 20031212			AU 2003-243328			20030527						
AU	2003	2433	28		B2		2010	0520									
EP	1532	153			A1		2005	0525		EP 2	003-	7555	23		2	0030	527
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
JP	JP 2005531585 T 20051020 JP 2004-507478 20030527							527									
PRIORITY APPLN. INFO.: US 2002-383574P P 20020524																	
	WO 2003-US16767 W 20030527																

OTHER SOURCE(S): MARPAT 140:16715

GI

AB The present invention is directed to azepinoindole and pyridoindole derivs. (shown as I and II; variables defined below; e.g. Et 1,2,3,6-tetrahydroazepino[4,5-b]indole-5-carboxylate). These compds. were used in pharmaceutical compns. and methods for modulating the activity of farnesoid X receptor and/or orphan nuclear receptors. A farnesoid X receptor/ECREx7 co-transfection assay and a TR-FRET assay were used to establish the EC50/IC50 values for potency and percent activity or inhibition for efficacy; efficacy defines the activity of a compound relative to a high control (chenodeoxycholic acid, CDCA) or a low control (DMSO/vehicle). Most of the compds. disclosed and tested exhibited activity in at least one of the assays (EC50 or IC50 <10 µM); most showed activity at <1 µM, e.g. Pr 3-(4-fluorobenzoy1)-2-methy1-1,2,3,6-tetrahydroazepino[4,5-b]indole-5carboxylate exhibited agonist activity <1 µM EC50 and >100 % efficacy and 8-(3-cyclopropyl-1-methylureido)-3-(4-fluorobenzoyl)-1,1-dimethyl-1,2,3,6-tetrahydroazepino[4,5-b]indole-5-carboxylic acid Et ester exhibited antagonist activity with IC50 <100 nM and 100 % inhibition. Although the methods of preparation are not claimed, 74 example prepns. of I and II and characterization data for many more I and II are included. For I and II: n = 0-4; A is -N(R9), -0 or -S(0)t- (t = 0-2); R1 and R2 = H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, aralkyl, heteroaralkyl, -OR14, -SR14, -N(R15)R16, -N(R15)S(O)2R43; -N(R17)N(R15)R16, -N(R17)N(R15)S(0)2R43, -C(0)R18, -C(0)OR14, -C(S)OR14, -C(O)SR14, -C(O)N(R15)R16, -C(O)N(R15)S(O)2R43, -C(O)N(R15)N:R16 and -C(0)N(R17)N(R15)R16; or -C(0)N(R17)N(R15)S(0)2R43; or R1 and R2, together with the atom to which they are attached, form a cycloalkyl, heterocyclyl, -C(0)N(R13)N(R11)R12, -C(0)N(R13)N(R11)S(0)2R43, -N(R13)C(0)R10, -N(R13)C(0)N(R11)R12, -N(R13)C(0)N(R11)S(0)2R43, -N(R10)C(0)N(R13)N(R11)R12, -N(R10)C(0)N(R13)N(R11)S(0)2R43, -N(R13)C(0)OR10, -P(0)OR10, -P(0)OR10, -P(0)OR12. R4, R5, R6 and R7 = H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, aralkyl, heteroaralkyl, -OR14, -SR14, -S(O)2R14, -N(R15)R16, -N(R15)S(O)2R43, -C(O)R18, -C(O)OR20, -C(O)N(R21)R22, -C(O)N(R21)S(O)2R43; -C(O)N(R42)N(R21)R22; or -C(O)N(R42)N(R21)S(O)2R43; or R4 and R5, or R4

and R6, or R4 and R7, or R5 and R6, or R5 and R7, or R6 and R7, together with the C atom to which they are attached, form a cycloalkyl, heterocyclyl, or cycloalkenyl ring, or together form a double bond and the others of R4, R5, R6 and R7 are as described above; or R6 and R7 together form an oxo, thioxo, imine, oxime or a hydrazone, or R6 and R7, together with the C atom to which they are attached, form an exocyclic double bond, and R4 and R5 are as described above. R8 = alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, halo, pseudohalo, cyano, nitro, -C(0)OR23, -C(0)N(R24)R25, -C(0)N(R24)S(0)2R43, -C(0)R26, -OR27, -SR27, -C(S)OR23, -C(O)SR23, -N(R28)R29, and -N(R28)S(O)2R43, or two adjacent R8 groups, together with the carbons to which they are attached, form an aryl, cycloalkyl, heterocyclyl or heteroaryl; addnl. details including provisos are given in the claims. 629664-83-1P

629663-80-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of azepinoindole and pyridoindole derivs. as modulators of farnesoid X and/or orphan nuclear receptors)

RN 629663-80-5 CAPLUS

Spiro(azepino(4.5-b)indole-1(2H), 2'-(1.3)dioxolane)-5-carboxylic acid, CN 3-(4-fluorobenzovl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

629664-83-1 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cvclopentane]-5-carboxvlic acid, 3-(3,4-difluorobenzovl)-3,6-dihydro-, ethyl ester (CA INDEX NAME)

629664-84-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of azepinoindole and pyridoindole derivs. as modulators of farnesoid X and/or orphan nuclear receptors)

RN 629664-84-2 CAPLUS

CN Spiro[azepino[4,5-b]indole-1(2H),1'-cyclopentane]-5-carboxylic acid, 3,6-dihydro-, ethyl ester (CA INDEX NAME)

OS.CITING REF COUNT:

- THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)
- REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 40 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:945402 CAPLUS

DOCUMENT NUMBER: 140:769

TITLE: Benzoazepine derivatives as Meniere's disease remedies INVENTOR(S): Matsukawa, Utane; Fujimori, Akira; Arai, Yukinori;

Sudo, Katsumi

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003342175 PRIORITY APPLN. INFO.:	A	20031203	JP 2002-149965 JP 2002-149965	20020524
OTHER SOURCE(S):	MARPAT	140:769	01 2002 113300	20020021

AB The new 1,4,5,6-tetrahydroimidazo[4,5-d]benzoazepine derivs. [1; ring D = phenylene, pyridindiyl; X, Y = CH, N; Rl, R2, R3 = H, OH, halogen, low alkyl) and their pharmaceutically acceptable salts are claimed as Meniere's disease and hearing disorder remedies. I were prepared, and formulation examples of injections and capsules were given.

Ι

1T	1222456-11-2P	1222456-14-5P	1222456-17-8P
	1222456-19-0P	1222456-21-4P	1222456-24-7P
	1222456-26-9P	1222456-29-2P	1222456-31-6P
	1222456-33-8P	1222456-35-0P	1222456-39-4P
	1222456-41-8P	1222456-43-0P	1222456-46-3P
	1222456-48-5P	1222456-51-0P	1222456-53-2P
	1222456-55-4P	1222456-57-6P	1222456-60-1P
	1222456-63-4P	1222456-65-6P	1222456-67-8P
	1222456-69-0P	1222456-72-5P	1222456-74-7P
	1222456-75-8P	1222456-78-1P	1222456-79-2P
	1222456-81-6P	1222456-83-8P	1222456-85-0P

RN

1222456-87-2P 1222456-89-4P 1222456-91-8P
1222456-93-0P 1222456-96-3P 1222456-99-6P
1222457-01-3P 1222457-04-6P
RL: PAC (Pharmacological activity); PRPH (Prophetic); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(benzoazepine derive. as Meniere's disease remedies)
1222456-11-2 CAPLUS
[1,1'-Bajhenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyrazinyl)imidazo[4,5-d][1]benzazepin-6(IH)-yl]carbonyl]phenyl]-2'-fluoro-(CA INDEX NAME)

RN 1222456-14-5 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyrazinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-fluorophenyl]-(CA INDEX NAME) 10/565,702

RN 1222456-17-8 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[6-[[4,5-dihydro-2-(2pyrazinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-pyridinyl]-(CA INDEX NAME)

RN 1222456-19-0 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[5-[[4,5-dihydro-2-(2-

pyraziny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]-2-pyridiny1](CA INDEX NAME)

RN 1222456-21-4 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyrazinyl)lmidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-hydroxyphenyl]-(CA INDEX NAB;

RN 1222456-24-7 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyrimid3nyl)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]pheny1]-2'fluoro- (CA INDEX NAME)

RN 1222456-26-9 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyrimidinylimidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-fluorophenyl]-(CA INDEX NAME) 10/565,702

RN 1222456-29-2 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[6-[[4,5-dihydro-2-(2-pyrimidinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-pyridinyl]-(CA INDEX NAME)

RN 1222456-31-6 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[5-[[4,5-dihydro-2-(2-

pyrimidiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]-2-pyridiny1](CA INDEX NAME)

RN 1222456-33-8 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyrimidinyl)imidaco[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2hydroxyphenyl]- (CA INDEX NAME)

RN 1222456-35-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(6-methyl-2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-2'-fluoro-(CA INDEX NAME)

RN 1222456-39-4 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(6-methyl-2-pyridinyl)]midazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-fluorophenyl]-(CA INDEX NAME)

10/565,702

RN 1222456-41-8 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[6-[[4,5-dihydro-2-(6-methyl-2pyridinyl)|midazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-pyridinyl](CA INDEX NAME)

RN 1222456-43-0 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[5-[[4,5-dihydro-2-(6-methy1-2-

pyridiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]-2-pyridiny1](CA INDEX NAME)

RN 1222456-46-3 CAPLUS CN [1,1'-Bipheny1]-2-ca

[1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(6-methyl-2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-hydroxyphenyl]-(CA INDEX NAME)

RN 1222456-48-5 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, 2'-chloro-N-[4-[[4,5-dihydro-2-(2pyridinyl]imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222456-51-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, 3'-chloro-N-[4-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222456-53-2 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyridinyl)]midazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-2'-hydroxy-(CA INDEX NAME)

RN 1222456-55-4 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-

HO.

pyridiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]pheny1]-3'-hydroxy-(CA INDEX NAME)

RN 1222456-57-6 CAPLUS CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[2-(6-chl

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[2-(6-chloro-2-pyridinyl)-4,5-dihydroimidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

- RN 1222456-60-1 CAPLUS
- CN [1,1'-Bipheny1]-2-carboxamide, N-[4-[[4,5-dihydro-2-(5-methy1-2-pyridiny1)|middao[4,5-d][1]benzazepin-6(1H)-yl]carbony1]pheny1]- (CA INDEX NAME)

- RN 1222456-63-4 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-2'-fluoro-(CA INDEX NAME)

RN 1222456-65-6 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyridinyl]imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222456-67-8 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-4-pyridinyl]-(CA INDEX NAME)

RN 1222456-69-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[5-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-pyridinyl]-(CA INDEX NAME)

RN 1222456-72-5 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-pyridinyl]-(CA INDEX NAME)

RN 1222456-74-7 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[6-[[4,5-dihydro-2-(2pyridinyl)]midazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-pyridinyl]-(CA INDEX NAME)

RN 1222456-75-8 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-4-fluorophenyl]-(CA INDEX NAME)

RN 1222456-78-1 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyrimidinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

Page 530

RN 1222456-79-2 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyrazinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222456-81-6 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(6-methyl-2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222456-83-8 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2pyridiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]pheny1]-2'-fluoro-(CA INDEX NAME)

RN 1222456-85-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2pyridinyl)lmidazo[4,5-d][1]benzazepin-6(1H)-y1]carbonyl]phenyl]- (CA INDEX NAME)

RN 1222456-87-2 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][]]benzazepin-6(1H)-yl]carbonyl]-3-pyridinyl]-(CA INDEX NAME)

RN 1222456-89-4 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyridinyl)]midazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-4-pyridinyl]-(CA INDEX NAME)

RN 1222456-91-8 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyridiny1]]midazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]-3-pyridiny1]-(CA INDEX NAME)

RN 1222456-93-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-pyridinyl]-(CA INDEX NAME)

RN 1222456-96-3 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-fluorophenyl]-(CA INDEX NAME)

RN 1222456-99-6 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2-pyrimidiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]pheny1]- (CA INDEX NAME)

RN 1222457-01-3 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[2-[[4,5-dihydro-2-(2pyrazinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

- RN 1222457-04-6 CAPLUS
- CN [1,1'-Bipheny1]-2-carboxamide, N-[2-[[4,5-dihydro-2-(6-methy1-2pyridiny1)lmidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]pheny1]- (CA INDEX NAME)

433263-28-6P 433263-32-2P 433263-34-4P 433263-40-2P 433263-46-8P 433263-48-0P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

433263-26-4P

(benzoazepine derivs. as Meniere's disease remedies)

433263-24-2P

RN 433263-22-0 CAPLUS

433263-22-0P

RN 433263-24-2 CAPLUS CN [1,1'-Biphenv1]-2-ca

[1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-[2-pyrazinyl]midazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

RN 433263-26-4 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[4-[[4,5-dihydro-2-(6-methy1-2-

pyridiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]pheny1]-,
hydrochloride (1:1) (CA INDEX NAME)

RN 433263-28-6 CAPLUS CN [1,1'-Biphenyl]-2-c

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyrimidinyl)lmidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-, hydrochloride [1:1) (CA INDEX NAME)

- RN 433263-32-2 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-fluorophenyl]-, hydrochloride (1:1) (CA INDEX NAME)

- RN 433263-34-4 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyridinyl)]midazo[4,5-d][1]benzazepin-6(lH)-yl]carbonyl]phenyl]-2'-fluoro-hydrochloride (1:1) (CA INDEX NAME)

RN 433263-40-2 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[6-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-3-pyridinyl]-, hydrochloride (1:1) (CA INDEX NAME)

RN 433263-46-8 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-

 $\label{eq:pyridiny1} $$ pyridiny1) imidazo[4,5-d][1] benzazepin-6(1H)-y1] carbony1]-2-hydroxypheny1]-, hydrochloride (1:1) (CA INDEX NAME)$

RN 433263-48-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[4,5-dihydro-2-(2pyridinyl)lmidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-(phenylmethoxy)phenyl]- (CA INDEX NAME)

L28 ANSWER 41 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:861136 CAPLUS

DOCUMENT NUMBER: 140:59574

TITLE: Practical Synthesis of

 $N-\{4-[(2-Methyl-4,5-dihydroimidazo[4,5-d][1]benzazepin-$

6(1H)-y1)carbony1]pheny1}bipheny1-2-carboxamide
Monohydrochloride: an Arginine Vasopressin Antagonist

AUTHOR(S): Tsunoda, Takashi; Yamazaki, Atsuki; Iwamoto, Hidenori; Sakamoto, Shuichi

CORPORATE SOURCE: Chemical Technology Labs, Yamanouchi Pharmaceutical Co., Ltd., Takahaqi-shi, Ibaraki, 318-0001, Japan

SOURCE: Organic Process Research & Development (2003), 7(6),

883-887

CODEN: OPRDFK; ISSN: 1083-6160
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 140:59574

AB A novel, reliable, and cost-effective synthetic route to

N-[4-[(2-methyl-4,5-dihydroimidazo[4,5-d][1]benzazepin-6(1H)yl)carbonyl]bhenyl]biphenyl-2-carboxamide monohydrochloride (YM087), a

potent arginine vasopressin antagonist, has been developed. Using moisture-controlled potassium carbonate, imidazole formation from a-bromoketone furnished imidazobenzazepine, avoiding potential

oxazole-ring formation. Catalytic reduction of nitro imidazobenzazepine afforded the corresponding amine in high yields. Treatment of the

imidazole-containing amine directly, with a carbonyl chloride, afforded the target amide circumventing protection of the imidazole.

IT 168626-93-5P

RL: BYP (Byproduct); PREP (Preparation)

(practical synthesis of [[(methylimidazo[4,5-

d][1]benzazepinyl)carbonyl]phenyl]biphenylcarboxamide monohydrochloride
(arginine vasopressin antagonist))

RN 168626-93-5 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methyl-6H-oxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

Me

PAGE 2-A

- IT 168626-71-9P, 1,4,5,6-Tetrahydro-2-methyl-6-(4nitrobenzoyl)imidazo(4,5-d)[I]benzazepine 182202-75-1P
 RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 - (practical synthesis of [[(methylimidazo[4,5d][1]benzazepinyl)carbonyl]phenyl]biphenylcarboxamide monohydrochloride
 - (arginine vasopressin antagonist))
 168626-71-9 CAPLUS
- RN 168626-71-9 CAPLUS CN Methanone, (4.5-dih
 - M Methanone, (4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)(4-nitrophenyl)- (CA INDEX NAME)

10/565,702

RN 182202-75-1 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)-, hydrochloride (1:1) (CA INDEX NAME)

HC1

OS.CITING REF COUNT:

- 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
- REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 42 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:428907 CAPLUS

DOCUMENT NUMBER: 137:6180

TITLE: Preparation of

1,4,5,6-tetrahydroimidazo[4,5-d]benzazepine derivatives as vasopressin antagonists INVENTOR(S): Koshio, Hiroyuki; Kakefuda, Akio; Sato, Ippei; Wakayama, Ryutaro; Sanagi, Masanao

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.						DATE APPLICATION NO.											
		2002																
		W:	AE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KR,	KZ,	LC,	LK,	LR,	LS,
			LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PH,	PL,	PT,
			RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,
			UZ,	VN,	YU,	ZA,	ZW											
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,	CH,
			CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,
			BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
2	ΑU	2002	0241	15		A		2002	0611		AU 2	002-	2411	5		2	0011	127
		2002									JP 2	001-	3611	26		2	0011	127
	JΡ	4061	891			B2		2008	0319									
		2425																
3	EΡ	1338	597			A1		2003	0827		EP 2	001-	9981	71		2	0011	127
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
			IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR						
		2004									US 2	003-	4327	32		2	0030	527
		7056																
Ţ	JS	2006	0142	268		A1		2006	0629		US 2	006-	3539	95		2	0060	215
PRIOR:	ITY	APP	LN.	INFO	. :						JP 2	000-	3608	09		A 2	0001	128
											WO 2	001-	JP10	328		W 2	0011	127
											US 2	003-	4327	32		A1 2	0030	527

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 137:6180

GI

AB The title compds. I [ring D = phenylene, etc.; X, Y = CH, N; R1 - R3 = H, halo, etc.] are prepared In an in vitro V1A receptor binding assay, compds. of this invention showed the pKi values of 8.12 to 8.71.

Ι

IT 433263-20-8P 433263-48-0F RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of tetrahydroimidazobenzazepine derivs. as vasopressin

(preparation of tetrahydroimidazobenzazepine derivs. as vasopressiantagonists)

- RN 433263-20-8 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

RN 433263-48-0 CAPLUS

CN

[1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyridinyl)imidazo[4,5-d][1]benzazepin-6(1M)-yl]carbonyl]-2-(phenylmethoxy)phenyl]- (CA INDEX NAME)

IT 433263-22-0P 433263-24-2P 433263-26-4P 433263-28-6P 433263-32-2P 433263-34-4P

 433263-38-8P
 433263-40-2P
 433263-42-4P

 433263-46-8P
 433263-51-5P
 433263-53-7P

 433263-55-9P
 433263-58-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of tetrahydroimidazobenzazepine derivs. as vasopressin antagonists)

RN 433263-22-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-pyridinyl)imidazo|4,5-d|[1]benzazepin-6(1H)-yl]carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

RN 433263-24-2 CAPLUS

CN [1,1"-Biphenyl]-2-carboxamide, N-[4-[4,5-dihydro-2-(2-pyrazinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

RN 433263-26-4 CAPLUS

CN [1,1"-Biphenyl]-2-carboxamide, N-[4-[4,5-dihydro-2-(6-methyl-2-pyridinyl)lmidazo[4,5-d][]benzazepin-6(1H)-yl]carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

RN 433263-28-6 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-

RN 433263-32-2 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(IH)-yl]carbonyl]-3-fluorophenyl]-, hydrochloride (1:1) (CA INDEX NAME)

- RN 433263-34-4 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[14,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-2'-fluoro-, hydrochloride (1:1) (CA INDEX NAME)

- RN 433263-38-8 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[5-[[4,5-dihydro-2-(2-pyridinyl])midazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-pyridinyl]-, hydrochloride (1:1) (CA INDEX NAME)

RN 433263-40-2 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[6-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6[1H]-yl]carbonyl]-3-pyridinyl]-, hydrochloride (1:1) (CA INDEX NAME)

RN 433263-42-4 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2-

pyridiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]-2-hydroxypheny1](CA INDEX NAME)

RN 433263-46-8 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyrldinyl)lmidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-hydroxyphenyl]-, hydrochloride (1:1) (CA INDEX NAME)

- RN 433263-51-5 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyridinyl)]midazo[4,5-d][]]benzazepin-6(1H)-yl]carbonyl]-3-fluorophenyl]-(CA INDEX NAME)

- RN 433263-53-7 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-2'-fluoro-(CA INDEX NAME)

RN 433263-55-9 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[5-[[4,5-dihydro-2-(2pyridinyl)imidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]-2-pyridinyl]-(CA INDEX NAME)

RN 433263-58-2 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[6-[[4,5-dihydro-2-(2-

pyridiny1)imidazo[4,5-d][1]benzazepin-6(1H)-y1]carbony1]-3-pyridiny1](CA INDEX NAME)

IT 433263-61-7P 433263-65-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of tetrahydroimidazobenzazepine derivs. as vasopressin antagonists)

RN 433263-61-7 CAPLUS

CN Imidazo[4,5-d][1]benzazepine, 1,4,5,6-tetrahydro-6-[(4-methylphenyl)sulfonyl]-2-(2-pyridinyl)- (CA INDEX NAME)

RN 433263-65-1 CAPLUS

CN Imidazo[4,5-d][1]benzazepine, 1,4,5,6-tetrahydro-2-(2-pyridiny1)- (CA INDEX NAME)

REFERENCE COUNT:

2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L28 ANSWER 43 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:276524 CAPLUS

DOCUMENT NUMBER: 136:294818

TITLE: Preparation of indolobenzazepinones and related compounds as cyclin dependent kinase inhibitors

INVENTOR(S): Zaharevitz, Daniel W.; Gussio, Rick P.; Jalluri, Ravi K.; Sausville, Edward A.; Kunick, Conrad; Meijer,

PATENT ASSIGNEE(S): Centre National De La Recherche Scientifique, USA
SOURCE: U.S. Pat. Appl. Publ., 40 pp., Cont.-in-part of Appl.

No. PCT/US99/13579.

CODEN: USXXCO DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT 1	KI	ND	DATE			APPL	ICAT	ION	NO.		D	ATE		
US 20020			.1	2002			US 2	000-	7395	34		2	0001	214
US 66106 WO 99659		E		2003			1.70 1	000		E 20		1.	0000	C1 C
											19990616 , CN, CU, CZ, , IL, IN, IS, , MD, MG, MK, , SK, SL, TJ,			
W:	AE, AL,	AM, Al	, AU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,
	DE, DK,	EE, ES	, FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,
	JP, KE,	KG, KE	, KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,
	MN, MW,	MX, NO	, NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,
	TM, TR,	TT, UF	, UG,	US,	UZ,	VN,	YU,	ZA,	zw					
RW:	GH, GM,	KE, LS	, MW,	SD,	SL,	SZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,	DE,	DK,
	ES, FI,	FR, GE	, GR,	IE,	ΙT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,
	CI, CM,	GA, GN	, GW,	ML,	MR,	ΝE,	SN,	TD,	TG					
PRIORITY APPI	PRIORITY APPLN. INFO.: US 1998-89619P P 19980616													
	WO 1999-US13579 A2 19990616													
ASSIGNMENT H	ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT													
OTHER SOURCE(S): MARPAT 136:294818														

GI

AB Title compds. (I; A = 0, S; dotted line = optional double bond; R1 = alkoxy, amino, acyl, alkyl, alkenyl, alkynyl, cyano, NO2, CO2H, etc.; R2 = H, PhCH2, alkyl, alkyl ester; R3 = H, alkyl, cycloalkyl; Y, Z = atoms to form conjugated rings; with a proviso), were prepared Thus, IH-[1]benzazepine-2,5(3H,4H)-dione and 4-bromophenylhydrazine were heated with NaOAc in HOAc at 70° for 1 h to give 58% 9-bromo-7,12-dihydroindolo(3,2-d][1]benzazepin-6(5H)-one. This was refluxed 12 h with CuCN in DMF to give 42% 9-cyano-7,12-dihydroindolo(3,2-d][1]benzazepin-6(5H)-one. The latter inhibited cdk5 with IC50 = 0.044 nM.

IT 252894-50-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of indolobenzazepinones and related compds. as cyclin dependent kinase inhibitors)

- RN 252894-50-1 CAPLUS
- CN Pyrido[3',2':4,5]pyrrolo[3,2-d][1]benzazepin-6(5H)-one, 7,12-dihydro- (CA INDEX NAME)

L28 ANSWER 44 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:235879 CAPLUS

DOCUMENT NUMBER: 136:268144

TITLE: Water-soluble compositions containing conivaptan

hydrochloride

INVENTOR(S): Kakuta, Takashi; Koshio, Hiroyuki; Taniguchi, Nobuaki;

Asakura, Takashi

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	TENT NO.	KIND	DATE	API	PLICATION NO.	DATE
JP	2002087962	A	20020327	JP	2000-275755	20000912
PRIORITY	APPLN. INFO.:			JP	2000-275755	20000912
AB Thi	is invention relat	es to	stable water	-soi	luble compns.	containing

B This invention relates to stable water-soluble compns. containing conivaptan-HCI (I) crystals which show a specified lattice spacing and relative intensity in the powder x-ray diffraction spectrum obtained by using Cu-Ka line. A mixture was prepared containing I 100, HPMC 2910 300, and Polysorbate-80 50 g, and dissolved in MeOH/water (9:1). The mixture was blended with lactose 442 g and NaHCO3 150 g and then, granules 834 g, Avicel PHI02 240 g, Ac-Di-Sol 120g, and Mg stearate 6 g were mixed and compressed to give tablets (each containing 10 mg I).

IT 318237-73-9

RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of conivaptan hydrochloride crystals and water-soluble compns. containing them)

RN 318237-73-9 CAPLUS

CN Imidazo[4,5-d][1]benzazepine, 1,4,5,6-tetrahydro-2-methyl- (CA INDEX NAME)

L28 ANSWER 45 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2001:17852 CAPLUS

DOCUMENT NUMBER: 134:86254

TITLE: Preparation of crystal of condensed benzazepine

derivative

INVENTOR(S): Inakoshi, Masatoshi; Kakuta, Takashi; Kato, Yoshinori

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan; Astellas Pharma Inc.

SOURCE: Jpn. Kokai Tokkvo Koho, 7 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Patent
Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001002678	A	20010109	JP 1999-170444	19990617
JP 4461512	B2	20100512		
TODITY ADDING THEO.			TD 1000-170444	10000617

PRIORITY APPLN. INFO.: JP 1999-170444 1999061

AB α-Type crystal of 4'-[(2-methyl-1,4,5,6-tetrahydroimidazo[4,5-

d][1]benzazepine-6-yl)carbonyl]-2-phenylbenzanilide hydrochloride (I) having specific peaks in X-ray diffraction spectrum is prepared in a large

industrial scale starting from crude I crystal via dislocation of

 $\delta-\text{type}$ crystal to the $\alpha-\text{type}$ crystal. I possesses the antagonist activity against vasopressin receptor (no data). Thus, 0.25 mL

oxalyl chloride and a catalytic amount of DMF were added to a solution of 373 mg o-phenylbenzoic acid in 7.5 mL CH2C12 at -15° with stirring,

warmed to room temperature over a period of 2 h, stirred for 2 h, concentrated

under

reduced pressure, and coevaporated with CH2C12 to give a residue (o-phenylbenzoyl chloride). The residue was dissolved in 7.5 mL dry MeCN, added dropwise to a suspension of 0.5 g $6-(4-\min)$ coercively-2-methyl-1,2,4,5-tetrahydro-imidazo[4,5-

d][1]benzazepine in dry MeCN and 0.608 mL pyridine under ice-cooling,

on in benearepine in dry meen and 0.000 mL byridine under ice-cooling, warmed to room temperature, refluxed for .apprx.1 h, cooled, stirred with 4 N HCI/AcOEt, and filtered to give 1.18 g crude I crystal. Crude I crystal

(80 g) was added to a mixture of MeCN 400, MeOH 400, and H2O 80 mL, heated at 45° to dissoln. followed by filtering the solution to remove

floating particles and washing the filter with 80 mL MeOH, and the

combined filtrate and the washing was distilled under normal pressure until a total of 480 mL liquid was distilled To the residue was added 1,200 mL MeCN, refluxed for 3 h, slowly cooled to 20°, and the precipitated crystals were

filtered, washed with 200 mL MeCN, and vacuum-dried at 80° to give 70.2% I (62.02 g).

IT 195531-22-7 318237-73-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of α -type crystal of imidazobenzazepine hydrochloride derivative by crystal dissoln. as vasopressin receptor antagonist)

RN 195531-22-7 CAPLUS CN Methanone, (4-amino

 $\begin{tabular}{ll} Methanone, & (4-aminopheny1)(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-y1)- & (CA INDEX NAME) \end{tabular}$

RN 318237-73-9 CAPLUS

CN Imidazo[4,5-d][1]benzazepine, 1,4,5,6-tetrahydro-2-methyl- (CA INDEX NAME)

IT 168626-93-5P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of a-type crystal of imidazobenzazepine hydrochloride derivative by crystal dissoln, as vasopressin receptor antagonist)

RN 168626-93-5 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methyl-6H-oxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

L28 ANSWER 46 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:441796 CAPLUS

DOCUMENT NUMBER: 133:74016

TITLE: preparation of spirotricyclic compounds as H1 receptor

antagonists

INVENTOR(S): Janssens, Frans Eduard; Leenaerts, Joseph Elisabeth

PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg. Patent

SOURCE: PCT Int. Appl., 64 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

				APPLICATION NO.	
WO	2000037470 W: AE, AL, CZ, DE, IN, IS, MD, MG, SK, SL, RW: GH, GM, DK, ES,	A1 AM, AT, DK, DM, JP, KE, MK, MN, TJ, TM, KE, LS, FI, FR,	20000629 AU, AZ, BA, EE, ES, FI, KG, KP, KR, MW, MX, NO, TR, TT, TZ, MW, SD, SL, GB, GR, IE,	WO 1999-EP10176 BB, BG, BR, BY, CA, GB, GD, GE, GH, GM, KZ, LC, LK, LR, LS, NZ, PL, PT, RO, RU, UA, UG, US, UZ, VN, SZ, TZ, UG, ZW, AT, IT, LU, MC, NL, PT,	19991215 CN, CN, CR, CU, HR, HU, ID, IL, LT, LU, LV, MA, SD, SE, SG, SI, YU, ZA, ZW BE, CH, CY, DE, SE, BF, BJ, CF,
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AU	764820	B2	20030828	MR, NE, SN, TD, TG CA 1999-2355939 AU 2000-30412 BR 1999-16371 EP 1999-964625	
BR	9916371	A	20010918	BR 1999-16371	19991215
EP	1144411	A1	20011017	EP 1999-964625	19991215
EP	1144411	B1	20050427		
	R: AT, BE,	CH, DE,	DK, ES, FR,	GB, GR, IT, LI, LU,	NL, SE, MC, PT,
	IE, SI,	LT, LV,	FI, RO		
TR	2001001711	T2	20011221	TR 2001-1711	19991215
HU	2001004779	A2	20020429	HU 2001-4779	19991215
HU	2001004779	A3	20031229		
EE	2001000328	A	20020815	EE 2001-328	19991215
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JP	2002533344	T	20021008	JP 2000-589540	19991215
NZ	512870	A	20031128	NZ 1999-512870	19991215
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ES	2242443	T3	20051101	ES 1999-964625	19991215
CN	1258533	C.	20060607	CN 1999-814705	19991215
PL	196262	B1	20071231	PL 1999-348295	19991215
SK	286158	В6	20080407	SK 2001-814	19991215
1L	143767	A	20100328	IL 1999-143767	19991215
CZ	301953	В6	20100811	CZ 2001-2069	19991215
T.M	720381	В	20060311	IW 1999-88122194	19991217
EG	24605	A	20100110	EG 1999-1626	19991218
TM	2001MN00441	A	20050304	IN 2001-MN441	20010423
TN	212018	AI	20080125	DC 2001 105546	20010520
DC.	CE122	A	20011231	GB, GR, III, LI, UI, TR 2001-1711 HU 2001-4779 EE 2001-328 JP 2000-589540 NZ 1999-512870 AT 1999-964625 PT 1999-964625 ES 1999-964625 ES 1999-964625 ES 1999-964625 ES 1999-964705 FL 1999-348295 SK 2001-814 II 1999-143767 CZ 2001-2069 TW 1999-88122194 EG 1999-1626 IN 2001-MN441 BG 2001-105546 NO 2001-2710 HR 2001-453	20010529
BG	00133	BI	20070330	NO 2001 2710	20010601
NO	210001	A D1	20010601	NO 2001-2/10	20010601
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пR	2001000433	AZ	20020630	nn 2001-455	20010613

HR 2001000453	B1	20100731				
MX 2001006244	A	20010910	MX	2001-6244		20010618
ZA 2001004977	A	20020618	ZA	2001-4977		20010618
US 7148214	B1	20061212	US	2001-868535		20010726
HK 1043128	A1	20070119	HK	2002-104999		20020703
US 20050026901	A1	20050203	US	2004-898844		20040726
US 7087595	B2	20060808				
PRIORITY APPLN. INFO.:			EP	1998-204347	A	19981219
			WO	1999-EP10176	W	19991215
			US	2001-868535	A1	20010726
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 133:74016

GI

AB Title compds. [I R = 2233R5, Z2NHCOR5, Z2R5, R1 = H, halo, alkyl, acyl, etc.; R2 = H, halo, alkyl, aryl, etc.; R3R4 = YCH:CH, CH:CHY, CH:CHCH:CH; R5 = (un)substituted heteroaryl, -tetrahydrofuranyl, etc.; Y = O, S, (alkyl)imino, alkanoylimino; Z = alkylene, CH:CH, CH2CH(CH), CH2O, etc.; Z1 = CH2 or CH2CH2; Z3 = O, S, NH] were prepared Thus, 1-phenylmethyl-1H-imidazole was condensed with 1-phenylmethyl-4-piperidone and the product cyclized to give, after hydrogenation, I (R1 = R2 = H, R3R4 = CH:CHCH:CH, Z = CH2, Z1 = CH2CH2) (II; R = H) which was N-alkylated by 1-(2-bromoethyl)-4-ethyl-1, 4-dihydro-5H-tetrazol-5-one to give II [R = 2-(4-ethyl-5-oxo-1, 4-dihydro-1H-tetrazol-1-yl)ethyl]. Data for biol. activity of I were given.

IT 279253-82-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of spirotricyclic compds. as H1 receptor antagonists) 279253-82-6 CAPLUS

Spiro[cyclohexane-1,10'-[10H]imidazo[1,2-a]thieno[3,2-d]azepine],
(2E)-2-butenedioate (1:1) (CA INDEX NAME)

CM 1

CRN 279253-81-5 CMF C15 H16 N2 S

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN

10/565,702

CM 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

HO2C E CO2H

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD

(7 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L28 ANSWER 47 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:211386 CAPLUS

DOCUMENT NUMBER: 132:347544

TITLE: Synthesis of 1,4,5,6-tetrahydropyrazolo[3,4-

d]pyrido[3,2-b]azepine

AUTHOR(S): Albright, J. Donald; Du, Xuemei
CORPORATE SOURCE: Wyeth-Averst Research, Pearl River, NY, 10965-129

ORPORATE SOURCE: Wyeth-Ayerst Research, Pearl River, NY, 10965-1299, USA

SOURCE: Journal of Heterocyclic Chemistry (2000), 37(1), 41-46

CODEN: JHTCAD; ISSN: 0022-152X
PUBLISHER: HeteroCorporation

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 132:347544

AB The synthesis of 7,8-dimydro-5(6H)-quinolinone (3) from com. available
3-amino-2-cyclohexen-1-one and 3-(dimethylamino)acrolein in 23% yield
available to proposition of a proposal integration.

avoids the preparation of a propynal intermediate. Conversion of 5-(4-methylphenylsulfonyl)-6,78,9-tetrahydro-5H-pyrido[3,2-b]azepine to 6-(4-methylphenylsulfonyl)-1,4,5,6-tetrahydropyrazolo[3,4-d]pyrido[3,2-b]azepine is described. Removal of the N-(4-methylphenylsulfonyl) group with 40% sulfuric acid in acetic acid gave a tricyclic azepine.

Application of a similar series of reactions to 5-(4-nitrobenzoy1)-6,7,8,9-tetrahydro-5H-pyrido[3,2-b]-azepine afforded

6-(4-nitrobenzoyl)-1,4,5,6-tetrahydropyrazolo[3,4-d]pyrido[3,2-b]azepin. IZ 203636-53-7P 269404-10-6P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent) (preparation of)

RN 203636-53-7 CAPLUS

CN Methanone, (4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)(4-nitrophenyl)- (CA INDEX NAME)

RN 269404-10-6 CAPLUS

CN Pyrazolo[3,4-d]pyrido[3,2-b]azepine, 1,4,5,6-tetrahydro-6-[(4-methylohenyl)sulfonyl]- (CA INDEX NAME) 10/565,702

269404-11-7P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of tetrahydropyrazolo[3,4-d]pyrido[3,2-b]azepine)

269404-11-7 CAPLUS

CN Ethanone, 1-(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)- (CA INDEX NAME)

OS.CITING REF COUNT:

REFERENCE COUNT:

- THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
- 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 48 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:69208 CAPLUS

DOCUMENT NUMBER: 132:231505

TITLE: Nonpeptide arginine vasopressin antagonists for both V1A and V2 receptors: synthesis and pharmacological properties of 4'-(1,4,5,6-tetrahydroimidazo[4,5-

d][1]benzazepine-6-carbonyl)benzanilide derivatives and 4'-(5,6-dihydro-4H-thiazolo[5,4-d][1]benzazepine-6-

carbonyl)benzanilide derivative

AUTHOR(S): Matsuhīsa, Akira; Taniguchi, Nobuaki; Koshio, Hiroyuki; Yatsu, Takeyuki; Tanaka, Akihiro

CORPORATE SOURCE: Institute for Drug Discovery Research, Yamanouchi Pharmaceutical Co., Ltd., Tsukuba, 305-8585, Japan SOURCE: Chemical & Pharmaceutical Bulletin (2000), 48(1).

URCE: Chemic 21-31

CODEN: CPBTAL; ISSN: 0009-2363

PUBLISHER: Pharmaceutical Society of Japan DOCUMENT TYPE: Journal

DOCUMENT TYPE: Journal LANGUAGE: English

Arginine vasopressin (AVP) has a dual action mainly in the periphery, i.e., vasoconstriction and water reabsorption via V1A and V2 receptors; it may play a role in a number of diseases, including congestive heart failure (CHF), hypertension, renal disease, edema, and hyponatremia. We have attempted to develop a new series of orally active AVP antagonists for both V1A and V2 receptors based on the hypothesis that the blockade of both V1A and V2 receptors might be beneficial to CHF patients. In this report, a series of compds. structurally related to 4'-(1,4,5,6-tetrahydroimidazo[4,5-d][1]benzazepine-6-carbonyl)benzanilide and 4'-(5,6-dihydro-4H-thiazolo[5,4-d][1]benzazepine-6carbonyl)benzanilide were synthesized and examined for AVP antagonist activity for both V1A and V2 receptors. As a result, it was found that the 4'-(1,4,5,6-tetrahydroimidazo[4,5-d][1]benzazepine-6-carbony1)-2phenylbenzanilide derivs. showed potent binding affinity for both V1A and V2 receptors. Especially, 4'-(2-methyl-1,4,5,6-tetrahydroimidazo[4,5d][1]benzazepine-6-carbonyl)-2-phenylbenzanilide monohydrochloride (YM087, conivaptan hydrochloride) exhibited potent binding affinity and AVP antagonist activity, after i.v. administration, for both V1A and V2 receptors. Furthermore, YM087 exhibited the most potent oral activity for

this series are presented. 168626-93-5P 168626-96-8P 168626-97-9P 168626-98-0P 168626-99-1P 168627-00-7P 168627-03-0P 168627-01-8P 168627-02-9P 168627-04-1P 168627-06-3P 168627-07-4P 168627-13-2P 261787-71-7P 168627-12-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

the V2 receptor. Details of the synthesis and pharmacol, properties of

(preparation and pharmacol. properties of imidazo- and thiazolo(benzazepinylcarbonyl))benzanilide derivs. as arginine vasopressin antaqonists for both VIA and V2 receptors

RN 168626-93-5 CAPLUS

[1,1'-Bipheny1]-2-carboxamide, N-[4-[(4,5-dihydro-2-methy1-6H-oxazolo[4,5-d][1]benzazepin-6-y1)carbony1]pheny1]- (CA INDEX NAME)

CN

PAGE 2-A

RN 168626-96-8 CAPLUS

 $\label{eq:continuous} \begin{tabular}{ll} $[1,1'-Bipheny1]-2$-carboxamide, $N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-y1)carbony1]pheny1]-4'-methyl-, hydrochloride (1:1) \\ \end{tabular}$

(CA INDEX NAME)

CN

PAGE 2-A

• HC1

RN 168626-97-9 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(2-ethyl-4,5-dihydroimidazo[4,5-d][]benzazepin-6(1H)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A

HC1

RN 168626-98-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-propylimidazo[4,5-d][])benzazepin-6(1H)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A

● HC1

RN 168626-99-1 CAPLUS

NN 100220-99-1 CAFLOS
(N 11,1'-Biphenyl]-2-carboxamide, N-[4-[[4,5-dihydro-2(phenylmethyl)limidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-,
hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A



HC1

RN 168627-00-7 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(2-cyclopropyl-4,5-dihydroimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)



RN 168627-01-8 CAPLUS
CN Benzamide, N-[4-1(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)yl)carbonyl]phenyl1-2-methyl-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A



RN 168627-02-9 CAPLUS
CN Benzamide, N-[4-1(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)yl)carbonyl]phenyl1-2-methoxy-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A



RN 168627-03-0 CAPLUS
CN Benzamide, N-[4-1(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)yl)carbonyl]phenyl1-2-ethoxy-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A



- RN
- CN NAME)

PAGE 2-A

RN 168627-06-3 CAPLUS
CN Benzamide, N-[4-1(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)yl)carbonyl]phenyl]-2-fluoro-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A

- RN
- $\begin{tabular}{ll} 168627-07-4 & CAPLUS \\ Benzamide, N-[4-[4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonylphenyl]-2-(1-methylethyl)-, hydrochloride (1:1) (CA INDEX CAPLES) (CA INDEX CAPLES) (CAPLES) (CAPLES$ CN NAME)

PAGE 2-A



● HC1

RN 168627-12-1 CAPLUS

NN 100227-12-1 CAPDO
CON [1,1]-Splenyl]-2-carboxamide, N-[4-[[2-(2-aminoethyl)-4,5dihydroimidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-,
hydrochloride (1:2) (CA INDEX NAME)

PAGE 2-A



●2 HC1

- RN 168627-13-2 CAPLUS
- nn 10022/-13-2 CAFDOS
 CON [1,1]-Esphenyl]-2-carboxamide, N-[4-[[2-(3-aminopropyl)-4,5dihydroimidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-,
 hydrochloride (1:2) (CA INDEX NAME)

PAGE 2-A

Ph

●2 HC1

RN 261787-71-7 CAPLUS

NN 201707-7-7 CAPDOS
CN [1,1'-Sphenyl]-2-carboxamide, N-[4-[[2-(4-aminobutyl)-4,5dihydroimidazo[4,5-d][1]benzazepin-6(1H)-y1]carbonyl]phenyl]-,
hydrochloride (3:5) (CA INDEX NAME)

PAGE 2-A

●5/3 HC1

168626-66-2P 168626-67-3P 168626-68-4P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and pharmacol. properties of imidazo- and thiazolo(benzazepinylcarbonyl)benzanilide derivs. as arginine vasopressin antagonists for both V1A and V2 receptors) 168626-66-2 CAPLUS RN CN

[1,1'-Biphenyl]-2-carboxamide, N-[4-[[2-[2-(1,3-dihydro-1,3-dioxo-2Hisoindol-2-v1)ethv1]-4,5-dihydroimidazo[4,5-d][1]benzazepin-6(1H)yl]carbonyl]phenyl]- (CA INDEX NAME)

ΙT

PAGE 2-A

Ph

RN 168626-67-3 CAPLUS

PAGE 2-A

RN 168626-68-4 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[2-[4-(1,3-dihydro-1,3-dioxo-2H-ioindol-2-y1]butyl]-4,5-dihydroimidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

OS.CITING REF COUNT:

24 THERE ARE 24 CAPLUS RECORDS THAT CITE THIS RECORD (25 CITINGS)

REFERENCE COUNT:

21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 49 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:811246 CAPLUS

DOCUMENT NUMBER: 132:49953

TITLE: Preparation of indolobenzazepinones and related compounds as cyclin dependent kinase inhibitors. Kunick, Conrad; Meijer, Laurent; Zaharevitz, Daniel INVENTOR(S):

W.; Gussio, Rick; Jalluri, Ravi K.; Sausville, Edward

United States of America, Department of Health and PATENT ASSIGNEE(S):

Human Services, USA SOURCE: PCT Int. Appl., 116 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

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											1999-					9990	616	
	W:	AE.	AL.	AM.	AT.	AU.	AZ.	BA.	BB,	BG.	, BR,	BY.	CA,	CH.	CN.	CU,	CZ,	
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JP	2002	2102	90		T .		2002	0023		JP 4	2000- 1999-	0047	33		1	9990	010	
AT	3188	18			T		2006	0315		AT .	1999-	9287	15		1	9990	616	
US	2002	0042	412		AI					US a	2000-	/395	34		2	0001	214	
US	6610	684			B2		2003	0826										
AU	2001	0150	09		A		2002	0718		AU 2	2001-	1500	9		2	0010	116	
	7805				B2		2005	0324										
RITY	Y APP	LN.	INFO	. :							1998-							
										WO :	1999-1	JS13.	579	1	W 1	9990	616	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 132:49953 GI

AB Title compds. (I A = 0, S; dotted line = optional double bond; R1 = alkoxy, amino, acyl, alkyl, alkenyl, alkynyl, cyano, NO2, CO2H, etc.; R2 = H, PRCH2, alkyl, alkyl ester; R3 = H, alkyl, cycloalkyl; Y, Z = atoms to form conjugated rings; with a provisol, were prepared Thus, IH-[1]benzazepine-2, 5(3H, 4H)-dione and 4-bromophenylhydrazine were heated with NaOAc in HOAc at 70° for 1 h to give 58% 9-bromo-7,12-dihydroidnolo[3,2-d][1]benzazepin-6(5H)-one. This was refluxed 12 h with CuCN in DMF to give 42% 9-cyano-7,12-dihydroidnolo[3,2-d][1]benzazepin-6(5H)-one. The latter inhibited cdk5 with 1C50 = 0.044 nM.

II 252894-50-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of indolobenzazepinones and related compds. as cyclin dependent kinase inhibitors)

RN 252894-50-1 CAPLUS

CN Pyrido[3',2':4,5]pyrrolo[3,2-d][1]benzazepin-6(5H)-one, 7,12-dihydro- (CA INDEX NAME)

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 50 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:495193 CAPLUS

DOCUMENT NUMBER: 131:120908

TITLE: Vasopressin antagonists as preventives or remedies for

vision disorders

INVENTOR(S): Ogawa, Takahiro; Watanabe, Noriko; Waki, Mitsunori

PATENT ASSIGNEE(S): Senju Pharmaceutical Co., Ltd., Japan; Yamanouchi Pharmaceutical Co., Ltd.

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

LANGUAGE: Japane FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.							DATE			APP	LICAT	DATE							
							-													
	WO	9938	533			A1		1999	0805	Ţ	O	1999-	JP26	1		1	9990	125		
		W:	CA,	JP,	KR,	US														
		RW:	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	FF	R, GB,	GR,	IE,	IT,	LU,	MC,	NL,		
			PT,	SE																
	CA	2319	649			A1		1999	0805	(CA	1999-	-2319	649		1	9990	125		
	EP	1050	308			A1		2000	1108	E	EΡ	1999-	9011	51		1	9990	125		
		R:	DE,	ES,	FR,	GB,	ΙT													
	US	6268	359			B1		2001	0731	Ţ	JS	2000-	6012	16		2	0000	728		
PRIOR	RITY	APP	LN.	INFO	. :						JΡ	1998-	1553	8		A 1	9980	128		
										Ţ	O	1999-	JP26	1	1	7 1	9990	125		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 131:120908

- AB Disclosed are preventives or remedies for vision disorders based on ocular circulatory disorders, e.g. intraocular hypertension and glaucoma, and vision disorders based on ciliary tension, e.g nearsightedness, wherein the preventives or remedies contain vasopressin antagonists, i.e. benzazepine derivs. as the active ingredients. A suspension eyedrop containing 4'-[(2-methyl-1,4,5,6-tetrahydroimidazo[4,5-d] [1]benzazepine-6-yl)carbonyl]2-phenylbenzaniide-HCl 1, NaPH2 0.1,
 - polysorbate 80 0.1, NaCl 0.9 g, NaCl 9.1 g, NaCl 9.1 g in the Natural Natura
- IT 168626-97-9 168626-98-0 168627-00-7
 - RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
- RN 168626-97-9 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(2-ethyl-4,5-dihydroimidazo[4,5
 - d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A

HC1

RN 168626-98-0 CAPLUS

[1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-propylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

CN

PAGE 2-A

● HC1

RN 168627-00-7 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(2-cyclopropyl-4,5-dihydroimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A

I

● HC1

OS.CITING REF COUNT:

- 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
- 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 51 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:130582 CAPLUS

DOCUMENT NUMBER: 130:182471 TITLE: Preparation of

5,6-Heteroaryl-dipyrido[2,3-b:3',2'-f]azepines and their use in the prevention or treatment of HIV

infection

INVENTOR(S): Proudfoot, John R.; Hargrave, Karl; Kapadia, Suresh

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharmaceuticals, Inc., USA SOURCE: PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

PATENT INFORMATION:

PA'	TENT	NO.			KIN	D	DATE			API	PLIC	AT:	I NOI	10.		D	ATE		
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WO	9907	379			A1		1999	0218		WO	199	8-t	JS16	706		1	9980	811	
		CA,																	
	RW:	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	F	₹, G	В,	GR,	ΙE,	IT,	LU,	MC,	NL,	
		PT,	SE																
CA	2295	620			A1		1999	0218		CA	199	8-2	2295	520		1	9980	811	
US	5908	841			A		1999	0601		US	199	8-3	13252	27		1	9980	811	
US	5919	779			A		1999	0706		US	199	8-3	13252	26		1	9980	811	
EP	EP 1001782			A1 20000524			EP 1998-939913					13	19980811						
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		IE,	FΙ																
JP 2001513502						T 20010904			JP 2000-506969						19980811				
MX	2000	0013	65		A		2000	1020		MX	200	0-3	1365			2	0000	208	
PRIORIT	Y APP	LN.	INFO	. :						US	199	7-5	55189)P	1	P 1	9970	811	
										US	199	7-5	51891		1	P 1	9970	811	
										WO	199	8-0	JS16	706	1	7 1	9980	811	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 130:182471
GI

AB Disclosed are novel heteroaryl-dipyridoazepines represented by formula [I, II, and III; A and D are carbon (unsubstituted or optionally substituted with Me, Et, iso-Pr, vinyl, isopropenyl, ethynyl, halogen, nitro, cyano, amino, methylamino, dimethylamino, hydroxy, methoxy, mercapto or methylthio) or nitrogen; and B is oxygen, sulfur or nitrogen (unsubstituted or optionally substituted with Me, Et, iso-Pr, hydroxy or methoxy); and R1 is a hydrogen atom, C1-4 alkyl, C1-4 fluoroalkyl having 1 to 3 fluorine atoms, C3-6 cycloalkyl, oxetanyl, thietanyl, tetrahydrofuranyl, tetrahydrothiopyranyl, alkenylmethyl or C3-4 alkynylmethyl, or C2-3 alkyltoxyalkyl or alkylthioalkyl, alkanoyl or C2-5 alkyl(thiocarbonyl), or C2-6 alkenyl or alkynyli, trihalomethyl, C1-6 alkyl, C3-6 cycloalkyl, or C2-6 alkyloxy or alkylthio, or C2-6 alkyloxyalkyl or calkynyli, or C2-6 alkyloxy or alkylthio, or C2-6 alkyloxyalkyl or c3-6 alkyloxy or alkylthio, or C2-6 alkyloxyalkyl or ofi-alkylamino, etc.; R3 is

^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

a hydrogen atom, Me or halogen; R4 is a hydrogen atom, Me, Et or halogen; R5 is a hydrogen atom, hydroxy, amino, hydroxymethyl or aminomethyl] or a pharmaceutically acceptable salt. These compds. inhibit the enzymic activity of HIV-1 reverse transcriptase (RT), in particular the RNA-dependent DNA polymerase activity of HIV- 1 RT. It is known (data not shown) that they also inhibit the DNA-dependent DNA polymerase activity of HIV-1 RT. Thus, to a solution of 3-(2-fluoropyridin-3-v1)-4-(2ethylaminopyridin-3-yl)thiophene (0.021 g) in THF (1.5 mL) was added potassium bistrimethylsilylamide (0.5M in toluene) until no yellow color appeared on addition of further reagent. The mixture was stirred for 5 min, ethanol was added, the mixture was diluted with Et acetate, washed with water, dried, filtered, and evaporated to give, after chromatog., 8-ethylthienyl[3',4':6,5]dipyrido[2,3-b:3',2'-f]azepine (IV; R2 = H). IV (R2 = H) and IV (R2 = C1) at 1 μ M inhibited wild-type HIV-1 RT (RNA-dependent DNA polymerase) by 96 and 97%, resp. Pharmaceutical formulations containing the title compds. were given.

IT 220557-08-4P 220557-09-5P 220557-10-8P 220557-11-9P 220557-12-0P 220557-13-1P

220557-14-2P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 5,6-Heteroaryl-dipyrido[2,3-b:3',2'-f]azepines for prevention or treatment of HIV infection)

RN 220557-08-4 CAPLUS

CN 8H-Dipyrido[2,3-b:3',2'-f|thieno[3,2-d]azepine, 8-ethyl- (CA INDEX NAME)

RN 220557-09-5 CAPLUS

CN 8H-Dipyrido[2,3-b:3',2'-f]thiazolo[4,5-d]azepine, 8-ethyl- (CA INDEX NAME)

RN 220557-10-8 CAPLUS

CN 8H-Oxazolo[4,5-d]dipyrido[2,3-b:3',2'-f]azepine, 8-ethyl- (CA INDEX NAME)

- RN 220557-11-9 CAPLUS
- CN 8H-Dipyrido[2,3-b:3',2'-f]-1,2,3-thiadiazolo[4,5-d]azepine, 8-ethyl- (CA INDEX NAME)

- RN 220557-12-0 CAPLUS
- CN 8H-Dipyrido[2,3-b:3',2'-f]-1,2,3-thiadiazolo[5,4-d]azepine,
 5-bromo-8-ethyl- (CA INDEX NAME)

- RN 220557-13-1 CAPLUS
- CN 8H-Dipyrido[2,3-b:3',2'-f]-1,2,3-thiadiazolo[4,5-d]azepine, 8-ethyl-5-ethynyl- (CA INDEX NAME)

RN 220557-14-2 CAPLUS

CN 8H-Dipyrido[2,3-b:3',2'-f]-1,2,3-thiadiazolo[4,5-d]azepine, 8-ethyl-5-(2-phenylethyl)- (CA INDEX NAME)

IT 220557-24-4P 220557-25-5P 220557-31-3P 220557-32-4P 220557-42-6P 220557-43-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 5,6-Heteroaryl-dipyrido[2,3-b:3',2'-f]azepines for prevention or treatment of HIV infection)

RN 220557-24-4 CAPLUS

CN 8H-Dipyrido[2,3-b:3',2'-f]thiazolo[5,4-d]azepine, 8-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)

RN 220557-25-5 CAPLUS CN 8H-Dipyrido(2,3-b:3

8H-Dipyrido[2,3-b:3',2'-f]thiazolo[5,4-d]azepine (CA INDEX NAME)

RN 220557-31-3 CAPLUS

CN 8H-Oxazolo[5,4-d]dipyrido[2,3-b:3',2'-f]azepine, 8-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)

RN 220557-32-4 CAPLUS

CN 8H-Oxazolo[5,4-d]dipyrido[2,3-b:3',2'-f]azepine (CA INDEX NAME)

RN 220557-42-6 CAPLUS

CN 8H-Dipyrido[2,3-b:3',2'-f]-1,2,3-thiadiazolo[5,4-d]azepine, 8-ethyl-5-[2-(trimethylsilyl)ethynyl]- (CA INDEX NAME)

RN 220557-43-7 CAPLUS

CN 8H-Dipyrido[2,3-b:3',2'-f]-1,2,3-thiadiazolo[4,5-d]azepine, 8-ethyl-5-(2-phenylethynyl)- (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 52 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:104514 CAPLUS

DOCUMENT NUMBER: 130:153583

TITLE: Tricyclic benzazepine oxytocin and vasopressin

antagonists

INVENTOR(S): Albright, Jay Donald; Sum, Fuk-Wah

PATENT ASSIGNEE(S): American Cvanamid Company, USA

SOURCE: U.S., 110 pp., Cont.-in-part of U.S. Ser. No. 254,823.

CODEN: USXXAM
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 10

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5869483 US 5512563 NZ 299340 US 5693635 US 5834461 US 5843952 PRIORITY APPLN. INFO.:	A A A A A	19990209 19960430 20000825 19971202 19981110 19981201	US 1996-639014 US 1994-254823 NZ 1994-299340 US 1996-662546 US 1997-874314 US 1997-889858 US 1993-100003 US 1994-254823 NZ 1994-264116	19960424 19940613 19940728 19960613 19970613 19970708 B2 19930729 A2 19940613 A1 19940728
			US 1994-264116 US 1996-639014 US 1996-663400	A2 19960424 B1 19960613

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 130:153583

GI

AB This invention relates to title compds. I wherein: Y = e.g., (CH2)n, O, S wherein n is an integer from 0-2; A-B is (CH2)mNR3 or NR3(CH2)m , wherein m is an integer from 1-2, provided that when Y is (CH2)n and n=2, m may also be zero and when n is zero, m may also be three, provided also that when Y is (CH2)n and n is 2, m may not also be two; R1 = e.g., H, halo, OH; R2 = e.g., H, halo, OH; R3 is the moiety COAr where Ar is selected from, e.g., substituted Ph, (un)substituted 5-indolyl; the aromatic Z ring represents, e.g., fused (un)substituted Ph, 5- or 6-membered atom. heterocycle, that exhibit antagonist activity at V1 and/or V2 receptors and exhibit in vivo vasopressin antagonist activity, methods for using such compds. in treating diseases characterized by excess renal reabsorption of water, and processes for preparing such compds. I are also antagonists of the peptide hormone oxytocin and are useful in the control of premature birth. Thus, e.g., acylation of 6,11-dihydro-5H-dibenz[b,e]azepine (preparation given) with

 $4-[\,(2-\text{methylbenzoyl})\,\text{amino}]\,\text{benzoyl}$ chloride (preparation given) afforded Nn.[$4-[\,(6,11-\text{dihydro-5H-dibenz}[b,\,e]\,\text{azepin-5-yl})\,\text{carbonyl}]\,\text{phenyl}]-2-$ methylbenzamide which exhibited binding to rat hepatic VI receptors and rat kidney medullary V2 receptors with IC50 = 0.15 and 0.068 $\mu\text{M},\,\text{resp.,}$ and oxytocin receptor binding with IC50 = 2.9 μM

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1099466-57-5
                 1099466-58-6
                                   1099466-59-7
1099466-60-0
                 1099471-79-0
                                   1099471-80-3
1099471-81-4
                 1099471-82-5
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1101631-33-7
                 1101631-35-9
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RL: PRPH (Prophetic)

(Tricyclic benzazepine oxytocin and vasopressin antagonists)

RN 1099466-57-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099466-58-6 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]-2-methyl- (CA INDEX NAME)

 $\label{eq:condition} 1099466-59-7 \quad CAPLUS \\ \text{Benzamide}, \ 2-\text{chloro-N-[4-[(4,5-\text{dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y]|carbonyl]-3-methoxyphenyl]-4-fluoro- (CA INDEX NAME) \\$ CN

PAGE 1-A

CN

PAGE 2-A

F

RN 1099466-60-0 CAPLUS

Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]- (CA INDEX NAME)

RN 1099471-79-0 CAPLUS

CN Benzamide, 4-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

PAGE 2-A

- RN
- 1099471-80-3 CAPLUS
 Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME) CN

RN 1099471-81-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1099471-82-5 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1099471-83-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-84-7 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

RN 1099471-85-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1099471-86-9 CAPLUS
CN Benzamide, N-[4-](4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099471-87-0 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099471-88-1 CAPLUS
- CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

PAGE 2-A

RN 1099471-89-2 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

PAGE 2-A

RN 1099471-90-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

PAGE 2-A

RN 1099471-91-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099471-92-7 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-5-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-93-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-6-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101631-21-3 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-22-4 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101631-23-5 CAPLUS

Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 1101631-24-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-25-7 CAPLUS

Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

RN 1101631-26-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

10/565,702

RN 1101631-28-0 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-methyl- (CA INDEX NAME)

- RN 1101631-29-1 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbony1]-3-methylpheny1]-2,3-dimethyl- (CA INDEX NAME)

10/565,702

RN 1101631-30-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-31-5 CAPLUS

Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-32-6 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]-3-methylphenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

F

- RN 1101631-33-7 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101631-35-9 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

10/565,702

- IT 169879-79-2P
 - RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
- (tricyclic benzazepine oxytocin and vasopressin antagonists)
- RN 169879-79-2 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-v1)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

10/565,702

IT 169878-98-2P 169878-99-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(tricyclic benzazepine oxytocin and vasopressin antagonists)

RN 169878-98-2 CAPLUS

CN Methanone, (4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)(4-nitrophenyl)- (CA INDEX NAME)

RN 169878-99-3 CAPLUS

CN Methanone, (4-aminopheny1)(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)- (CA INDEX NAME)

OS.CITING REF COUNT:

2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT:

16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 53 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1998:816103 CAPLUS

DOCUMENT NUMBER: 130:52440

TITLE: Preparation of tricyclic benzazepine vasopressin

antagonists

INVENTOR(S): Albright, Jay D.; Venkatesan, Aranapakam M.; Delos

Santos, Efren G.

PATENT ASSIGNEE(S): American Cvanamid Company, USA

SOURCE: U.S., 82 pp., Cont.-in-part of U.S. Ser. No. 373,169,

abandoned. CODEN: USXXAM Patent

DOCUMENT TYPE:

LANGUAGE: English FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.				KIND		DATE			APF	ric	CAT	ION I	NO.			DATE		
ZA	US 5849735 ZA 9600300 CA 2210688			A 19970715			US 1995-548805 ZA 1996-300 CA 1996-2210688				19960115							
WO				A1 19960725			WO 1996-US1051					19960116						
	W:																, JP,	
		SG,	SI,	SK,	TR,	TT,	UA,	UZ,	VN,	ΑZ	, E	ΒY,	ΚZ,	RU,	ΤJ,	TM		
	RW:	KE,	LS,	MW,	SD,	SZ,	UG,	AT,	BE,	CH	Ι, [DΕ,	DK,	ES,	FR,	GB	, GR,	ΙE,
		IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF	٠, ٥	CG,	CI,	CM,	GA,	GN	, ML,	MR,
		NE,	SN,	TD,	TG													
AU	9649 9606	042			A		1996	0807		AU	199	96-4	1904	2			19960	116
BR	9606	977			A		1997	1104		BR	199	96-6	5977				19960	116
EP	8044	20			A1		1997	1105		ΕP	199	96-9	9052	27			19960	116
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GF	, 1	IT,	LI,	LU,	NL,	SE	, PT,	IE,
		SI,	LT,	LV														
	1190	391			A		1998	0812		CN	199	96-1	1925	68			19960	116
HU	9801	219			A2		1998	1028		HU	199	98-1	1219				19960	116
HU	9801	219					2000	0728										
JP	1051				T		1998	1208		JΡ	199	96-5	5224	48			19960	116
IL	1167	77			A		2000	1121		IL	199	96-1	1167	77			19960	116
TW	4495	84			В		2001	0811		TW	199	96-8	3510	0462			19960	116
PRIORITY APPLN. INFO.:										US	199	95-3	3731	69		B2	19950	117
										US	199	95-5	5488	05		A	19951	222
										WO	199	96-t	JS10.	51		W	19960	116

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 130:52440

GT

- AB The title compds. [I; Y = NH, N(Ac), N(C1-3 alkyl); AB = CH2N(R3), N(R3)CH2; R1 = H, halo, OH, etc.; R2 = H, OH, halo, etc.; R3 = C(O)Ar; Ar = (un)substituted thienyl, furanyl, Ph, etc.; Z together with two carbon atoms attached = (un)substituted Ph. 5-membered aromatic (un)saturated heterocyclic ring having one heteroatom selected from O. N or S. etc. 1. which exhibit antagonist activity at V1 and/or V2 receptors, in vivo vasopressin antagonist activity, and oxytocin antagonist activity, and therefore are useful in treating diseases characterized by excess renal reabsorption of water as well as congestive heart failure, liver cirrhosis, nephrotic syndrome, CNS injuries, lung disease and hyponatremia, were prepared Thus, reaction of 10,11-dihydrodibenz[b,f][1,4]oxazepine with 6-[(5-fluoro-2-methylbenzoyl)amino]pyridine-3-carbonyl in the presence of Et3N in CH2Cl2 afforded the title compound II which showed IC50 of 0.24 µM and 0.054 µM against rat hepatic V1 receptors binding and rat
- kidney medullary V2 receptors binding, resp. IT 217475-60-0P 217475-61-1P 217475-62-2P
 - 217475-60-0P 217475-61-1P 217475-62-2P 217475-63-3P
 - RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 - (preparation of tricyclic benzazepine vasopressin antagonists) 217475-60-0 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydropyrazolo[4,3-d][1]benzazeoin-6(1H)-vl)carbonvl]phenvl]- (CA INDEX NAME)

RN

10/565,702

RN 217475-61-1 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 217475-62-2 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[5-[(4,5-dihydropyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

10/565,702

RN 217475-63-3 CAPLUS
CN Benzamide, N-[5-[(4,5-dihydropyrazolo[4,3-d][1]benzazepin-6(1H)y1)carbony1]-2-pyridiny1]-5-fluoro-2-methy1- (CA INDEX NAME)

II 217475-68-8P 217475-69-9P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of tricyclic benzazepine vasopressin antagonists) ${\tt RN} - 217475-68-8 - {\tt CAPLUS}$

CN Pyrazolo[4,3-d][1]benzazepine, 1,4,5,6-tetrahydro-6-[(2methylphenyl)sulfonyl]- (CA INDEX NAME)

RN 217475-69-9 CAPLUS

CN Pyrazolo[4,3-d][1]benzazepine, 1,4,5,6-tetrahydro- (CA INDEX NAME)

OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 54 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1998:366893 CAPLUS

DOCUMENT NUMBER: 129:54301

ORIGINAL REFERENCE NO.: 129:11320h,11321a

TITLE: Preparation of tricyclic benzazepine vasopressin

antagonists

INVENTOR(S): Albright, Jav Donald; Reich, Marvin Fred

PATENT ASSIGNEE(S): American Cvanamid Co., USA

SOURCE: U.S., 103 pp., Cont.-in-part of U.S. 5,512,563.

CODEN: USXXAM DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5760031	A	19980602	US 1996-637911	19960425
US 5512563	A	19960430	US 1994-254823	19940613
NZ 299340	A	20000825	NZ 1994-299340	19940728
PRIORITY APPLN. INFO.:			US 1993-100003 B	2 19930729
			US 1994-254823 A	2 19940613
			NZ 1994-264116 A	1 19940728

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 129:54301

GI

AB The title compds. [I; R1 = H, C1, F, etc.; R2 = H, C1, Br, etc.; R1R2 = methylenedioxy, ethylenedioxy; R5 = H, Me, Et, etc.; R6 = N(Ra)COAr', CON(Ra)Ar', etc. (Ra = H, Me, Et; Ar' = (un)substituted Ph, thienyl, etc.); R7 = H, Me, Et, etc.; Z = (un) substituted fused oxazole, Ph], which exhibit antagonist activity at V1 and/or V2 receptors and in vivo vasopressin antagonist activity as well as antagonist activity at oxytocin receptors, and as such useful in treating diseases characterized by excess renal reabsorption of water (e.g., congestive heart failure, nephrotic syndrome, hyponatremia, coronary vasospasm, cardiac ischemia, renal vasospasm, liver cirrhosis, brain edema, cerebral ischemia, cerebral hemorrhage-stroke), were prepared Thus, reaction of 4-[(2-methylbenzoyl)amino]benzoyl chloride with 10,11-dihydro-5H-dibenz[b,f]azepine in the presence of

4-(dimethylamino)pyridine in pyridine at 80° for 18 h followed by the addition of NaH afforded the compound II which showed IC50 of 2.5 µM against rat hepatic V1 receptor binding and IC50 of 0.86 μM against rat kidney medullary V2 receptor binding.

Kidney meddilary	vz receptor billa	ing.
1099466-42-8	1099466-57-5	1099466-58-6
1099466-59-7	1099466-60-0	1099466-69-9
1099466-70-2	1099466-71-3	1099467-03-4
1099467-04-5	1099467-05-6	1099467-06-7
1099467-07-8	1099467-08-9	1099467-09-0
1099467-10-3	1099467-11-4	1099467-12-5
1099467-13-6	1099467-14-7	1099467-15-8
1099467-16-9	1099467-17-0	1099467-18-1
1099467-19-2	1099467-20-5	1099467-21-6
1099467-22-7	1099467-23-8	1099467-24-9
1099467-25-0		
	1099466-42-8 1099466-59-7 1099466-70-2 1099467-04-5 1099467-10-3 1099467-10-3 1099467-13-6 1099467-16-9 1099467-19-2 1099467-22-7	$\begin{array}{lll} 1099466-59-7 & 1099466-60-0 \\ 1099466-70-2 & 1099467-1-3 \\ 1099467-04-5 & 1099467-05-6 \\ 1099467-10-3 & 1099467-10-9 \\ 1099467-10-3 & 1099467-14-7 \\ 1099467-16-9 & 1099467-14-7 \\ 1099467-15-2 & 1099467-20-5 \\ 1099467-22-7 & 1099467-23-8 \\ \end{array}$

RL: PRPH (Prophetic)

(Preparation of tricyclic benzazepine vasopressin antagonists)

RN 1099466-42-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 1099466-57-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1099466-58-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]-2-methyl- (CA INDEX NAME)

- RN 1099466-59-7 CAPLUS
- CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]-4-fluoro (CA INDEX NAME)

PAGE 1-A

PAGE 2-A



- RN 1099466-60-0 CAPLUS
- CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]-3-methoxyphenyl]- (CA INDEX NAME)

RN 1099466-69-9 CAPLUS

CN Benzamide, 4-chloro-N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 1099466-70-2 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 1099466-71-3 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

PAGE 2-A

RN 1099467-03-4 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)yl)carbonyl]phenyl]-2-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

PAGE 2-A

RN 1099467-04-5 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

PAGE 2-A



RN 1099467-05-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-06-7 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-07-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-3-fluoro-5-(trifluoromethyl)- (CA INDEX NAME)

PAGE 2-A

RN 1099467-08-9 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-5-(methylthio)- (CA INDEX NAME)

PAGE 2-A

RN 1099467-09-0 CAPLUS CN 3-Thiophenecarboxamide, N-[4-[(4,5

 $\begin{tabular}{ll} 3-Thiophene carboxamide, & N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- & (CA INDEX NAME) \\ \end{tabular}$

PAGE 2-A

RN 1099467-10-3 CAPLUS

CN 3-Furancarboxamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-11-4 CAPLUS

CN Benzeneacetamide, 2-chloro-N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

RN 1099467-12-5 CAPLUS

CN Benzeneacetamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[(4,3-d)[1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-13-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-y1)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-14-7 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-15-8 CAPLUS

CN Benzamide, 2,3-dichloro-N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

RN 1099467-16-9 CAPLUS

CN Benzamide, 2,4-dichloro-N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

RN 1099467-17-0 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-18-1 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(lH)-yl)carbonyl]phenyl]-5-fluoro-2-methyl-NAME)

PAGE 2-A

RN 1099467-19-2 CAPLUS

CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

PAGE 2-A



RN 1099467-20-5 CAPLUS

CN Benzamide, N-[4-[44,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-y1)carbonyl]-3-methylphenyl]-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-21-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]-3-methylphenyl]-2,3-dimethyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-22-7 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]-3-methylphenyl]-4-fluoro-NAME)

PAGE 2-A



RN 1099467-23-8 CAPLUS

CN Benzamide, N-[4-[4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-y1)carbonyl]-3-methylphenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-24-9 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]-3-methylphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-25-0 CAPLUS

 $\begin{array}{lll} {\tt CN} & {\tt Benzamide, 2, 4-dichloro-N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]-3-methylphenyl]- & ({\tt CA INDEX NAME}) \\ \end{array}$

PAGE 1-A

PAGE 2-A

- 169879-79-2P
 - RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
- (preparation of tricyclic benzazepine vasopressin antagonists) RN 169879-79-2 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

IT 169878-98-2P 169878-99-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of tricyclic benzazepine vasopressin antagonists)

RN 169878-98-2 CAPLUS

CN Methanone, (4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)(4nitrophenyl)- (CA INDEX NAME)

RN 169878-99-3 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)- (CA INDEX NAME)

- OS.CITING REF COUNT:
- REFERENCE COUNT:
- THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
- 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 55 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN 1998:289524 CAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER: 128:321569

ORIGINAL REFERENCE NO.:

128:63744h,63745a

TITLE: Preparation of tricyclic benzazepine vasopressin

antagonists

INVENTOR(S): Albright, Jav Donald; Reich, Marvin Fred

American Cyanamid Co., USA PATENT ASSIGNEE(S):

SOURCE: U.S., 101 pp., Cont.-in-part of U.S. Ser. No.

5,512,563. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5747487	A	19980505	US 1996-638067	19960425
US 5512563	A	19960430	US 1994-254823	19940613
NZ 299340	A	20000825	NZ 1994-299340	19940728
PRIORITY APPLN. INFO.:			US 1993-100003 B	2 19930729
			US 1994-254823 A	2 19940613
			NZ 1994-264116 A	1 19940728

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT MARPAT 128:321569 OTHER SOURCE(S):

GI

AB The title compds. [I; Y = a bond; AB = (CH2)2N(R3); R1 = H, halo, OH, etc.; R2 = H, halo, OH, etc.; R1R2 = methylenedioxy, ethylenedioxy; R3 = C(O)Ar (wherein Ar = (un)substituted Ph, thienyl, etc.); Z = (un) substituted fused benzo, thiazole, etc.], which exhibit antagonistic activity at V1 and/or V2 receptors, in vivo vasopressin antagonist activity, and antagonistic activity at oxytocin receptors, and therefore useful in treating diseases characterized by excess renal reabsorption of water such as congestive heart failure, nephrotic syndrome, hyponatremia, coronary vasospasm, cardiac ischemia, liver cirrhosis, brain edema, cerebral ischemia, or cerebral hemorrhage-stroke, were prepared Thus, reaction of 4-[(2-methylbenzoyl)amino]benzoyl chloride with 10,11-dihydro-5H-dibenz[b,f]azepine in the presence of

4-(dimethylamino)pyridine in pyridine afforded the title compound II which showed IC50 of 2.5 µM against rat hepatic VI receptors binding and IC50 of 0.86 µM against rat kidney medullary VZ receptors binding.

1099466-57-5 1099466-58-6 1099466-59-7 1099471-79-0 1099466-60-0 1099471-80-3 1099471-81-4 1099471-82-5 1099471-83-6 1099471-84-7 1099471-85-8 1099471-86-9 1099471-88-1 1099471-89-2 1099471-90-5 1099471-91-6 1099471-92-7 1099471-93-8 1101631-21-3 1101631-22-4 1101631-23-5 1101631-24-6 1101631-25-7 1101631-26-8 1101631-28-0 1101631-29-1 1101631-30-4 1101631-31-5 1101631-32-6 1101631-33-7 1101631-35-9 1175339-15-7 1175339-18-0

RL: PRPH (Prophetic)

(Preparation of tricyclic benzazepine vasopressin antagonists)

RN 1099466-57-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099466-58-6 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]-2-methyl- (CA INDEX NAME)

 $\label{eq:continuous} \begin{tabular}{ll} 1099466-59-7 & CAPLUS \\ Benzamide, & 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yllcarbonyl]-3-methoxyphenyl]-4-fluoro- (CA INDEX NAME) \\ \end{tabular}$ CN

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CN

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RN 1099466-60-0 CAPLUS

Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]- (CA INDEX NAME)

RN 1099471-79-0 CAPLUS

CN Benzamide, 4-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

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RN

1099471-80-3 CAPLUS
Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME) CN

RN 1099471-81-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1099471-82-5 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1099471-83-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-84-7 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

RN 1099471-85-8 CAPLUS CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazejin-6-yl]carbonyl]phenyl]- (CA INDEX NAME)

RN 1099471-86-9 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1099471-88-1 CAPLUS
CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

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RN 1099471-89-2 CAPLUS CN Benzamide, N-[4-[(4,5-dihydro-6H-is

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

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PAGE 2-A

RN 1099471-90-5 CAPLUS CN Benzamide, N-[4-[(4.5

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

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RN 1099471-91-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099471-92-7 CAPLUS

CN Benzamide, N=[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-5-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-93-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-6-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101631-21-3 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-22-4 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101631-23-5 CAPLUS

Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 1101631-24-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-25-7 CAPLUS

Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

RN 1101631-26-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101631-28-0 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-methyl- (CA INDEX NAME)

- RN 1101631-29-1 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbony1]-3-methylpheny1]-2,3-dimethyl- (CA INDEX NAME)

RN 1101631-30-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-31-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]-3-methylphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-32-6 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

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- RN 1101631-33-7 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101631-35-9 CAPLUS
- CN Benzamide, N-[4-(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

1175339-15-7 CAPLUS
Benzamide, 2-chloro-4-fluoro-N-[3-fluoro-4-[(5,6,9,10-tetrahydro-4+thieno[3,2-d][I]benzazepin-5-yl]carbonyl]phenyl]- (CA INDEX NAME) CN

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RN 1175339-18-0 CAPLUS

CN Benzamide, 5-fluoro-2-methyl-N-[3-methyl-4-[(5,6,9,10-tetrahydro-4H-thieno[3,2-d][1]benzazepin-5-vl)carbonyl]phenyl)- (CA INDEX NAME)

IT 169879-79-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of tricyclic benzazepine vasopressin antagonists)

RN 169879-79-2 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

ΙT 169878-98-2P 169878-99-3P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of tricyclic benzazepine vasopressin antagonists) RN 169878-98-2 CAPLUS

Methanone, (4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)(4-CN nitrophenyl) - (CA INDEX NAME)

RN 169878-99-3 CAPLUS

Methanone, (4-aminophenyl)(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)- (CA INDEX NAME) CN

OS.CITING REF COUNT:

1

- REFERENCE COUNT:
- THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
- 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 56 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1998:226808 CAPLUS DOCUMENT NUMBER: 128:282791

ORIGINAL REFERENCE NO.: 128:55979a,55982a

TITLE: Preparation of tricyclic benzazepine vasopressin

antagonists

INVENTOR(S): Albright, Jav Donald; Reich, Marvin Fred; Sum,

Fuk-wah; Du, Xuemei

PATENT ASSIGNEE(S): American Cvanamid Co., USA

SOURCE: U.S., 104 pp., Cont.-in-part of U.S. 5,512,563.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 10

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 5739128	A	19980414	US 1996-637058	19960424
	US 5512563	A	19960430	US 1994-254823	19940613
	NZ 299340	A	20000825	NZ 1994-299340	19940728
	US 5786353	A	19980728	US 1997-893497	19970711
PRIOR	RITY APPLN. INFO.:			US 1993-100003 B	2 19930729
				US 1994-254823 A	2 19940613
				NZ 1994-264116 A	1 19940728
				US 1996-637058 A	3 19960424

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT MARPAT 128:282791

OTHER SOURCE(S): GI

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AΒ The title compds. [I; Z-containing ring = (un)substituted fused Ph; Y = NH, NCOMe; N(C1-3 alkyl); R1 = H, halo, OH, etc.; R2 = H, C1, Br, I, F, OH, etc.; R1R2 = methylenedioxy, ethylenedioxy; R3 = C(0)Ar (wherein Ar = (un)substituted Ph, furanyl, thienyl, pyrrolyl)] which exhibit antagonist activity at V1 and/or V2 receptors, in vivo vasopressin antagonist activity, and antagonist activity at oxytocin receptors, and are therefore useful in treating diseases characterized by excess renal reabsorption of water, were prepared Thus, reaction of 4-[(2-methylbenzoyl)amino]benzoyl chloride with 10,11-dihydro-5H-dibenz[b,f]azepine in the presence of

1099466-42-8

4-(dimethylamino)pyridine and NaH in pyridine afforded compound II which showed IC50 of 2.5 µM against rat hepatic V1 receptor binding and IC50 of 0.86 µM against rat kidney medullary V2 receptor binding.

1099466-60-0

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                 1099472-05-5
                                   1099472-06-6
1099472-07-7
                 1099472-08-8
RL: PRPH (Prophetic)
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1099466-59-7

(Preparation of tricyclic benzazepine vasopressin antagonists)

1099466-42-8 CAPLUS RN

CN Benzamide, N-[4-[(4.5-dihydro-1-methylpyrazolo[4.3-d][1]benzazepin-6(1H)v1)carbonv1]phenv1]-2-(methv1thio)- (CA INDEX NAME)

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- RN 1099466-59-7 CAPLUS
- CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]-4-fluoro- (CA INDEX NAME)

MeO NH

PAGE 1-A

NH C O

PAGE 2-A

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- RN 1099466-60-0 CAPLUS
- CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d)[1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]- (CA INDEX NAME)

RN 1099466-69-9 CAPLUS
CN Benzamide, 4-chloro-N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1])benzazepin-6(lH)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

PAGE 1-A

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RN 1099466-70-2 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

PAGE 1-A

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RN 1099466-71-3 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

PAGE 2-A

RN 1099467-03-4 CAPLUS CN

Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

PAGE 2-A

RN 1099467-04-5 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

PAGE 2-A

RN 1099467-05-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-06-7 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-07-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-3-fluoro-5-(trifluoromethyl)- (CA INDEX NAME)

PAGE 2-A

RN 1099467-08-9 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-5-(methylthio)- (CA INDEX NAME)

PAGE 2-A

RN 1099467-09-0 CAPLUS
CN 3-Thiophenecarboxamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-10-3 CAPLUS

CN 3-Furancarboxamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-11-4 CAPLUS

CN Benzeneacetamide, 2-chloro-N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

RN 1099467-12-5 CAPLUS

CN Benzeneacetamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-13-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-14-7 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-15-8 CAPLUS

CN Benzamide, 2,3-dichloro-N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-y1)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

RN 1099467-16-9 CAPLUS

CN Benzamide, 2,4-dichloro-N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

RN 1099467-17-0 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

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RN 1099467-18-1 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro-2-methyl (CA INDEX NAME)

PAGE 2-A

RN 1099467-19-2 CAPLUS

CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

PAGE 2-A



RN 1099467-20-5 CAPLUS

CN Benzamide, N-[4-[44,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-y1)carbonyl]-3-methylphenyl]-2-methyl- (CA INDEX NAME)

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RN 1099467-21-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]-3-methylphenyl]-2,3-dimethyl- (CA INDEX NAME)

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RN 1099467-22-7 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]-3-methylphenyl]-4-fluoro-NAME)

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RN 1099467-23-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]-3-methylphenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099467-24-9 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(lH)-yl)carbonyl]-3-methylphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

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RN 1099467-25-0 CAPLUS

CN Benzamide, 2,4-dichloro-N-[4-[(4,5-dihydro-1-methylpyrazolo[4,3-d][1]benzazepin-6(1H)-yl)carbonyl]-3-methylphenyl]- (CA INDEX NAME)

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RN 1099471-79-0 CAPLUS

CN Benzamide, 4-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

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1099471-80-3 CAPLUS
Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME) RN CN

RN 1099471-81-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1099471-82-5 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

10/565,702

RN 1099471-83-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-84-7 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

10/565,702

RN 1099471-85-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1099471-86-9 CAPLUS
CN Benzamide, N-[4-](4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

10/565,702

- RN 1099471-87-0 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099471-88-1 CAPLUS
- CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

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RN 1099471-89-2 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

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RN 1099471-90-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

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RN 1099471-91-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

RN 1099471-92-7 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-5-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-93-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-6-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-94-9 CAPLUS

CN Benzamide, N-[2-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1099471-95-0 CAPLUS

CN Benzamide, N-[2-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

- RN 1099471-96-1 CAPLUS
- CN Benzamide, N-[2-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1099471-97-2 CAPLUS

CN Benzamide, N-[2-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1099471-98-3 CAPLUS

Benzamide, 2-chloro-N-[2-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

RN 1099471-99-4 CAPLUS

CN Benzamide, 2,3-dichloro-N-[2-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1099472-00-0 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]-2-methylphenyl]-2-methyl- (CA INDEX NAME)

- RN 1099472-01-1 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbony1]-2-methylpheny1]-2,3-dimethyl- (CA INDEX NAME)

RN 1099472-02-2 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-2-methylphenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1099472-03-3 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbony1]-2-methylpheny1]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1099472-04-4 CAPLUS CN Benzamide, N-[4-[(4.5-

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-2-methylphenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

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- RN 1099472-05-5 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-2-methylphenyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1099472-06-6 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-2-methylphenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

- RN 1099472-07-7 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-2-methoxyphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099472-08-8 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbony1]-2-methoxypheny1]-2-methy1- (CA INDEX NAME)

169879-79-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of tricyclic benzazepine vasopressin antagonists) 169879-79-2 CAPLUS

RN

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6v1)carbonv1]phenv1]-2-methv1- (CA INDEX NAME)

IT 169878-98-2P 169878-99-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of tricyclic benzazepine vasopressin antagonists)

RN 169878-98-2 CAPLUS

CN Methanone, (4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)(4-nitrophenyl)- (CA INDEX NAME)

RN 169878-99-3 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)- (CA INDEX NAME)

OS.CITING REF COUNT:

1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT:

14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 57 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1998:219347 CAPLUS

DOCUMENT NUMBER: 128:257347 ORIGINAL REFERENCE NO.: 128:50947a

TITLE: Tricyclic benzazepine oxytocin and vasopressin

antagonists

INVENTOR(S): Albright, Jav Donald; Du, Xuemei

PATENT ASSIGNEE(S): American Cvanamid Company, USA

SOURCE: U.S., 109 pp., Cont.-in-part of U.S. 5,512,563.

CODEN: USXXAM DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5736538	A	19980407	US 1996-638059	19960425
US 5512563	A	19960430	US 1994-254823	19940613
NZ 299340	A	20000825	NZ 1994-299340	19940728
PRIORITY APPLN. INFO.:			US 1993-100003 B2	19930729
			US 1994-254823 A2	19940613
			NZ 1994-264116 A1	19940728

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 128:257347

GI

This invention relates to title compds. I wherein: Y = e.g., (CH2)n, O, S AB wherein n is an integer from 0-2; A-B is (CH2)mNR3 or NR3(CH2)m , wherein m is an integer from 1-2, provided that when Y is (CH2)n and n=2, m may also be zero and when n is zero, m may also be three, provided also that when Y is (CH2)n and n is 2, m may not also be two; R1 = e.g., H, halo, OH; R2 = e.g., H, halo, OH; R3 is the moiety COAr where Ar is selected from, e.g., substituted Ph, (un)substituted 5-indolyl; the aromatic Z ring represents, e.g., fused (un) substituted Ph, 5- or 6-membered atom. heterocycle, that exhibit antagonist activity at V1 and/or V2 receptors and exhibit in vivo vasopressin antagonist activity, methods for using such compds. in treating diseases characterized by excess renal reabsorption of water, and processes for preparing such compds. I are also antagonists of the peptide hormone oxytocin and are useful in the control

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of premature birth. Thus, e.g., acylation of 6,11-dihydro-5H-dibenzlb, elazepine (preparation given) with 4-[(2-methylbenzoyl)amino|benzoyl chloride (preparation given) afforded N-[4-[(6,1]-dihydro-5H-dibenz[b, e]azepin-5-yl)carbonyl]phenyl]-2-methylbenzamide (II) which exhibited binding to rat hepatic V1 receptors and rat kidney medullary V2 receptors with ICSO = 0.15 and 0.068 µM, resp., and oxytocin receptor binding with ICSO = 2.9 µM.
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1099466-57-5	1099466-58-6	1099466-59-7
1099466-60-0	1099471-79-0	1099471-80-3
1099471-81-4	1099471-82-5	1099471-83-6
1099471-84-7	1099471-85-8	1099471-86-9
1099471-87-0	1099471-88-1	1099471-89-2
1099471-90-5	1099471-91-6	1099471-92-7
1099471-93-8	1101631-21-3	1101631-22-4
1101631-23-5	1101631-24-6	1101631-25-7
1101631-26-8	1101631-28-0	1101631-29-1
1101631-30-4	1101631-31-5	1101631-32-6
1101631-35-9	1146445-27-3	

RL: PRPH (Prophetic)

(Tricyclic benzazepine oxytocin and vasopressin antagonists)

RN 1099466-57-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]-3-methoxyphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099466-58-6 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]-2-methyl- (CA INDEX NAME)

 $\label{eq:continuous} \begin{tabular}{ll} 1099466-59-7 & CAPLUS \\ Benzamide, & 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yllcarbonyl]-3-methoxyphenyl]-4-fluoro- (CA INDEX NAME) \\ \end{tabular}$ CN

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RN 1099466-60-0 CAPLUS

CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]- (CA INDEX NAME)

RN 1099471-79-0 CAPLUS

CN Benzamide, 4-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN

1099471-80-3 CAPLUS
Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME) CN

RN 1099471-81-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1099471-82-5 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1099471-83-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-84-7 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

RN 1099471-85-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1099471-86-9 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbony1]pheny1]-3-fluoro-2-methy1- (CA INDEX NAME)

- RN 1099471-87-0 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099471-88-1 CAPLUS
- CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

RN 1099471-89-2 CAPLUS

CN Benzamide, N=[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-90-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

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RN 1099471-91-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

RN 1099471-92-7 CAPLUS

CN Benzamide, N=[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-5-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-93-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-6-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101631-21-3 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-22-4 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101631-23-5 CAPLUS

N Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 1101631-24-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-25-7 CAPLUS

N Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

RN 1101631-26-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101631-28-0 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]-3-methylphenyl]-2-methyl- (CA INDEX NAME)

- RN 1101631-29-1 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbony1]-3-methylpheny1]-2,3-dimethyl- (CA INDEX NAME)

RN 1101631-30-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-31-5 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]-3-methylphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-32-6 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

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- RN 1101631-35-9 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

- RN 1146445-27-3 CAPLUS
- CN Benzenecarbothioamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-methyl- (CA INDEX NAME)

- II 169879-79-2P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
- (tricyclic benzazepine oxytocin and vasopressin antagonists)
 RN 169879-79-2 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

IT 169878-98-2P 169878-99-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(tricyclic benzazepine oxytocin and vasopressin antagonists)

RN 169878-98-2 CAPLUS

CN Methanone, (4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)(4-nitrophenyl)- (CA INDEX NAME)

RN 169878-99-3 CAPLUS

CN Methanone, (4-aminopheny1)(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)- (CA INDEX NAME)

OS.CITING REF COUNT:

3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT:

15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 58 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1998:203750 CAPLUS DOCUMENT NUMBER: 128:282795

DOCUMENT NUMBER: 128:282/95

ORIGINAL REFERENCE NO.: 128:55983a,55986a

TITLE: Synthesis of pyrrolidinothieno-(or

[1]benzothieno)[3]azepinones from the corresponding

azepinediones or N-(thienyl or [1]benzothienyl)acetylprolinals

AUTHOR(S): Othman, Mohamed; Netchitailo, Pierre; Decroix, Bernard

CORPORATE SOURCE: Lab. Chimie, Fac. Scis. Techniques, Univ. Havre, Le

Havre, 76600, Fr.

SOURCE: Heterocycles (1998), 48(2), 335-346

CODEN: HTCYAM; ISSN: 0385-5414

PUBLISHER: Japan Institute of Heterocyclic Chemistry

DOCUMENT TYPE: Journal LANGUAGE: English

GI

AB Title compds. I [RR1 = CH:CHS, SCH:CH, o-C6H4S, o-SC6H4] were prepared from the diones or by direct cyclization of prolinals II.

IT 205761-43-9P 205761-47-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of pyrrolidinothienoazepinones)

one and the company

RN 205761-43-9 CAPLUS

CN 5H-Pyrrolo[1,2-a]thieno[2,3-d]azepin-5-one, 4,7,8,9-tetrahydro- (CA INDEX NAME)

RN 205761-47-3 CAPLUS

CN 5H-[1]Benzothieno[2,3-d]pyrrolo[1,2-a]azepin-5-one, 1,2,3,6-tetrahydro-(CA INDEX NAME)



OS.CITING REF COUNT:

- THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
- REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 59 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1998:146590 CAPLUS

DOCUMENT NUMBER: 128:192647

ORIGINAL REFERENCE NO.: 128:38063a

Preparation of tricyclic benzazepine derivatives as TITLE:

vasopressin antagonists

INVENTOR(S): Albright, Jav D.; Delos Santos, Efren G.; Du, Xuemei;

Reich, Marvin F. PATENT ASSIGNEE(S):

American Cyanamid Co., USA SOURCE: U.S., 56 pp., Cont.-in-part of U.S. 5,532,235.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5719278	A	19980217	US 1996-657830	19960531
US 5532235	A	19960702	US 1995-373139	19950117
PRIORITY APPLN. INFO.:			US 1995-373139 A	2 19950117
ASSIGNMENT HISTORY FOR	US PATEN	T AVAILABLE	IN LSUS DISPLAY FORMAT	
OTHER SOURCE(S):	MARPAT	128:192647		

Α

AB Title tricyclic compds. I (Y = e.g., bond, CH2, CH(OH); A-B is a moiety selected from (CH2)nNR3 and NR3(CH2)n where n = 1 or 2 provided that when Y = bond, n = 2; ring Z represents: (1) an unsatd. 6-membered heterocyclic aromatic ring containing one nitrogen atom, optionally substituted by one or two

substituents selected from C1-3 lower alkyl, halogen, amino, C1-3 lower alkoxy or C1-3 lower alkylamino; (2) a 5-membered aromatic (unsatd.) heterocyclic ring having one heteroatom selected from O, or S; ring E represents: (1) an unsatd. 6-membered heterocyclic aromatic ring containing one or two nitrogen atoms, optionally substituted by one or two substituents selected from C1-3 lower alkyl, halogen, amino, C1-3 lower alkoxy or C1-3 lower alkylamino; (2) a 5-membered aromatic (unsatd.) heterocyclic ring having one heteroatom selected from O, N or S; (3) a 5-membered aromatic (unsatd.) heterocyclic ring having two adjacent nitrogen atoms; (4) a 5-membered aromatic (unsatd.) heterocyclic ring having one nitrogen atom together with either one oxygen or one sulfur atom; wherein the 5 or 6-membered heterocyclic rings are optionally substituted by C1-3 lower alkyl, halogen, or C1-3 lower alkoxy; R3 = COAr where Ar = substituted Ph,

furyl, thienyl, pyrrolyl, thiazolyl, pyridyl) were prepared Thus, e.g., acylation of $6-(4-\min control)-1, 4, 5, 6-tetrahydropyrazolo13, 4-d|thieno13, 2-b|azepin e (preparation given) with 2-chloro-4-fluorobenzoyl chloride afforded N-[4-[(4,5-dihydropyrazolo]3, 4-d|thieno13, 2-b|azepin-6(1H)-ylloarbonyll phenyll-2-chloro-4-fluorobenzamide (II) which exhibited ICSO = 2.0 and 0.34 <math display="inline">\mu\text{M}$, resp., for binding to rat hepatic VI receptors and rat kidney medullary V2 receptors, and ICSO = 2.5 μM for binding to oxytocin receptors. N-[4-[(4,5-b]hydropyrazolo]3, 4-d|thieno[3,2-b]azepin-6(H)-ylloarbonyl] -3-chlorophenyl]-5-fluoro-2-methylbenzamide exhibited ICSO = 0.0061 μM for V2 receptor binding.

	IC50 = 0.0061	μM	for V2 receptor	binding.
Т	1101696-19-8		1101696-20-1	1101696-21-2
	1101696-22-3		1101696-24-5	1101696-25-6
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	1101696-35-8		1101696-36-9	1101696-37-0
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	1101697-21-5		1101697-22-6	1101697-23-7
	1101697-24-8		1101697-25-9	1101697-26-0
	1101697-27-1		1101697-28-2	1101697-29-3
	1101697-30-6		1101697-31-7	1101697-32-8
	1101697-33-9		1101697-34-0	1101697-35-1
	1101697-36-2		1101697-37-3	1101697-38-4
	1101697-39-5		1101697-40-8	1101697-41-9
	1101697-42-0		1101697-43-1	1101697-44-2
	1101697-45-3		1101697-46-4	1101697-47-5
	1101697-48-6		1101697-49-7	1101697-50-0
	1101697-51-1		1101697-52-2	1101697-53-3
	1101697-54-4		1101697-55-5	1101697-56-6
	1101697-57-7		1101697-58-8	1101697-59-9
	1101697-60-2		1101697-61-3	1101697-62-4
	1101697-63-5		1101697-64-6	1101697-65-7

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1101697-75-9
                 1101697-76-0
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1101697-83-9
                 1101697-84-0
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1101697-86-2
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                                   1101697-91-9
1101697-92-0
                 1101697-93-1
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1101697-95-3
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1101697-98-6
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                                   1101698-00-3
1101698-01-4
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1101698-04-7
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                                   1101698-06-9
1101698-08-1
                 1101698-09-2
                                   1101698-10-5
1101698-11-6
                 1101698-12-7
                                   1101698-13-8
1101698-14-9
                 1101698-40-1
                                   1101698-41-2
                 1101698-43-4
                                   1101698-44-5
1101698-42-3
1101698-45-6
                 1175342-15-0
                                   1175342-16-1
1175342-17-2
                 1200803-49-1
                                   1200803-55-9
RL: PRPH (Prophetic)
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RL: PRPH (Prophetic)

(Preparation of tricyclic benzazepine derivatives as vasopressin antagonists)

RN 1101696-19-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 1101696-20-1 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)yl)carbonyl]ohenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101696-21-2 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(phenylmethyl)- (CA INDEX NAME)

RN 1101696-22-3 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME) 10/565,702

RN 1101696-24-5 CAPLUS

CN Benzamide, 2-bromo-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

HN-

RN 1101696-25-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-

yl)carbonyl]phenyl]-2,4-difluoro- (CA INDEX NAME)

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RN 1101696-26-7 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

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RN 1101696-27-8 CAPLUS

CN Benzamide, 5-bromo-2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

10/565,702

1101696-28-9 CAPLUS RN

CN Benzamide, N-[3-bromo-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN

 $1101696-29-0 \quad CAPLUS \\ Benzamide, \ 2,5-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-dihydropyrazolo[3,4-d]pyrido[2,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-d$ b]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

10/565,702

RN 1101696-30-3 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101696-31-4 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-

6(1H)-y1)carbony1]pheny1]-5-fluoro- (CA INDEX NAME)

RN

1101696-32-5 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-(trifluoromethyl)- (CA INDEX NAME)

RN 1101696-33-6 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-6-fluoro- (CA INDEX NAME)

- RN 1101696-34-7 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,6-dimethyl- (CA INDEX NAME)

- RN 1101696-35-8 CAPLUS
- CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]-5-fluoro- (CA INDEX NAME)

- RN 1101696-36-9 CAPLUS
- CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

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RN 1101696-37-0 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

1101696-38-1 CAPLUS
Benzamide, 2,3,5-trichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-CN b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101696-39-2 CAPLUS

Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME) CN

RN 1101696-40-5 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]-4-nitro- (CA INDEX NAME)

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RN 1101696-41-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,5-dimethyl- (CA INDEX NAME)

RN 1101696-42-7 CAPLUS

CN Benzamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

RN 1101696-43-8 CAPLUS CN Benzamide, 2-chloro-N

Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]-5-(methylthio)- (CA INDEX NAME)

RN 1101696-44-9 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-fluoro-4-(trifluoromethyl)- (CA INDEX NAME)

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RN 1101696-45-0 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-nitro- (CA INDEX NAME)

10/565,702

RN 1101696-46-1 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-fluoro- (CA INDEX NAME)

RN 1101696-47-2 CAPLUS

Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1101696-48-3 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101696-49-4 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-3,4,5-trimethoxy- (CA INDEX NAME)

- RN 1101696-50-7 CAPLUS
- CN Benzamide, 2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

- RN 1101696-51-8 CAPLUS
- CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2,4-difluoro- (CA INDEX NAME)

- RN 1101696-52-9 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101696-53-0 CAPLUS

CN Benzamide, 2-bromo-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101696-54-1 CAPLUS

CN Benzamide, 5-bromo-2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101696-55-2 CAPLUS

CN Benzamide, N-(3-bromo-5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-methyl- (CA INDEX NAME)

RN 1101696-56-3 CAPLUS

CN Benzamide, N-[3-chloro-5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101696-57-4 CAPLUS

CN Benzamide, 2,5-dichloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbony1]-2-pyridiny1]- (CA INDEX NAME)

RN 1101696-58-5 CAPLUS

CN Benzamide, 2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-5-fluoro- (CA INDEX NAME)

- RN 1101696-59-6 CAPLUS
- CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]-2,3-dimethyl- (CA INDEX NAME)

- RN 1101696-60-9 CAPLUS
- CN Benzamide, 2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-5-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101696-61-0 CAPLUS
- CN Benzamide, 2,6-dichloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101696-62-1 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]-2-(2-pyridinyl)- (CA INDEX NAME)

RN 1101696-63-2 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-(2-thienyl)- (CA INDEX NAME)

RN 1101696-64-3 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2,6-dimethyl- (CA INDEX NAME)

RN 1101696-65-4 CAPLUS

CN Benzamide, 2-chloro-N-[3-chloro-5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-5-fluoro- (CA INDEX NAME)

RN 1101696-66-5 CAPLUS

CN Benzamide, 2-chloro-N-[3-chloro-5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-4-fluoro- (CA INDEX NAME)

RN 1101696-67-6 CAPLUS

CN Benzamide, 2,3-dichloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101696-68-7 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-methoxy- (CA INDEX NAME)

RN 1101696-69-8 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1101696-70-1 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1101696-71-2 CAPLUS

CN Benzamide, 2,3,5-trichloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101696-72-3 CAPLUS

CN Benzamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro- (CA INDEX NAME)

RN 1101696-73-4 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101696-79-0 CAPLUS

3-Pyridinecarboxamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101696-80-3 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101696-81-4 CAPLUS

CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101696-82-5 CAPLUS

CN Benzamide, 2,4-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101696-83-6 CAPLUS
- CN Benzamide, 2,4-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101696-84-7 CAPLUS
- CN Benzamide, 2,5-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101696-85-8 CAPLUS
- CN Benzamide, 2,5-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101696-86-9 CAPLUS
- CN Benzamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-fluoro- (CA INDEX NAME)

- RN 1101696-87-0 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-vl)carbonvl]phenvl]-2-methvl- (CA INDEX NAME)

- RN 1101696-88-1 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101696-89-2 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101696-90-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

RN 1101696-91-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

RN 1101696-92-7 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

- RN 1101696-93-8 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

- RN 1101696-94-9 CAPLUS
- CN Benzamide, 2,6-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101696-95-0 CAPLUS
- CN Benzamide, 2,6-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101696-96-1 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,6-dimethyl- (CA INDEX NAME)

RN 1101696-97-2 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,6-dimethyl- (CA INDEX NAME)

RN 1101696-98-3 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101696-99-4 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101697-00-0 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101697-01-1 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101697-02-2 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-03-3 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-04-4 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro- (CA INDEX NAME)

RN 1101697-05-5 CAPLUS

CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl|phenyl|-5-fluoro- (CA INDEX NAME)

RN 1101697-06-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-nitro- (CA INDEX NAME)

RN 1101697-07-7 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-nitro- (CA INDEX NAME)

RN 1101697-08-8 CAPLUS

CN Benzamide, 2-amino-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101697-09-9 CAPLUS
- CN Benzamide, 2-amino-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101697-10-2 CAPLUS
- CN Benzeneacetamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101697-11-3 CAPLUS
- CN Benzeneacetamide, 2,6-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$$

- RN 1101697-12-4 CAPLUS
- CN Benzeneacetamide, 2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101697-13-5 CAPLUS

CN Benzeneacetamide, 2,4-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$$

RN 1101697-14-6 CAPLUS

CN Benzeneacetamide, 2,4-dichloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101697-15-7 CAPLUS

CN Benzeneacetamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro- (CA INDEX NAME)

RN 1101697-16-8 CAPLUS

CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

RN 1101697-17-9 CAPLUS

CN Benzeneacetamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-methoxy- (CA INDEX NAME)

RN 1101697-18-0 CAPLUS

CN Benzeneacetamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbony1]pheny1]-2-methoxy- (CA INDEX NAME)

- RN 1101697-19-1 CAPLUS
- CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbony1]pheny1]-2,5-dimethoxy- (CA INDEX NAME)

- RN 1101697-20-4 CAPLUS
- CN Benzeneacetamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2,5-dimethoxy- (CA INDEX NAME)

- RN 1101697-21-5 CAPLUS
- CN Benzeneacetamide, 5-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-methoxy- (CA INDEX NAME)

- RN 1101697-22-6 CAPLUS
- CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

RN 1101697-23-7 CAPLUS

CN Benzeneacetamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]-3-fluoro- (CA INDEX NAME)

RN 1101697-24-8 CAPLUS

CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101697-25-9 CAPLUS

CN Benzeneacetamide, 2,3-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101697-26-0 CAPLUS

CN Benzeneacetamide, 2,3-dichloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101697-27-1 CAPLUS

CN Benzeneacetamide, 3-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-fluoro- (CA INDEX NAME)

RN 1101697-28-2 CAPLUS

CN Benzeneacetamide, 4-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-fluoro- (CA INDEX NAME)

RN 1101697-29-3 CAPLUS

CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101697-30-6 CAPLUS
- CN Benzeneacetamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101697-31-7 CAPLUS
- CN Benzeneacetamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro- (CA INDEX NAME)

$$\begin{array}{c|c} & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & \\ & & & & & & & & & & & \\ & & & & & & & & & & & \\ & & & & & & & & & & \\ & & & & & & & & & & \\ & & & & & & & & & & \\ & & & & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & \\ & & \\ &$$

- RN 1101697-32-8 CAPLUS
- CN Benzeneacetamide, 5-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-fluoro- (CA INDEX NAME)

- RN 1101697-33-9 CAPLUS
- CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-fluoro- (CA INDEX NAME)

RN 1101697-34-0 CAPLUS

CN Benzamide, 2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-4-nitro- (CA INDEX NAME)

RN 1101697-35-1 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2,5-dimethyl- (CA INDEX NAME)

RN 1101697-36-2 CAPLUS

CN Benzamide, 5-amino-2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101697-37-3 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-38-4 CAPLUS

CN Benzamide, 5-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-methoxy- (CA INDEX NAME)

RN 1101697-39-5 CAPLUS

CN Benzamide, 2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-5-(methylthio)- (CA INDEX NAME)

RN 1101697-40-8 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-fluoro-6-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-41-9 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-fluoro-4-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-42-0 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-43-1 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-nitro- (CA INDEX NAME)

RN 1101697-44-2 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-fluoro- (CA INDEX NAME)

RN 1101697-45-3 CAPLUS

CN Benzamide, 4-amino-2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

- RN 1101697-46-4 CAPLUS
- CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101697-47-5 CAPLUS
- CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

1101697-48-6 CAPLUS
Benzamide, 2, 4-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(lH)-y1)carbonyl|phenyl]- (CA INDEX NAME) CN

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Cl

RN 1101697-49-7 CAPLUS

CN Benzamide, 2,4-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

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Cl

RN 1101697-50-0 CAPLUS

CN Benzamide, 2,5-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN CN

 $1101697-51-1 \quad CAPLUS \\ Benzamide, \; 2,5-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-dihydro$ d]pyrido[3,2-b]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

RN 1101697-52-2 CAPLUS CN Benzamide, 5-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2b]azepin-6(1H)-y1)carbony1]pheny1]-2-fluoro- (CA INDEX NAME)

10/565,702

RN 1101697-53-3 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 1101697-54-4 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-

6(1H)-y1)carbony1]pheny1]-2-methy1- (CA INDEX NAME)

RN 1101697-55-5 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101697-56-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

- RN 1101697-57-7 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1101697-58-8 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(lH)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1101697-59-9 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

- RN 1101697-60-2 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(dimethylamino)- (CA INDEX NAME)

- RN 1101697-61-3 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(dimethylamino)- (CA INDEX NAME)

- RN 1101697-62-4 CAPLUS
- CN Benzamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1101697-63-5 CAPLUS
- CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101697-64-6 CAPLUS

CN Benzamide, 2,3-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101697-65-7 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro-6-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-66-8 CAPLUS

CN Benzamide, 2,3,5-trichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101697-67-9 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-

yl)carbonyl]phenyl]-2-(methylamino)- (CA INDEX NAME)

RN 1101697-68-0 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(methylamino)- (CA INDEX NAME)

RN 1101697-69-1 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-70-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101697-71-5 CAPLUS
- CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-methyl- (CA INDEX NAME)

- RN 1101697-72-6 CAPLUS
- CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101697-73-7 CAPLUS
- CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101697-74-8 CAPLUS
- CN Benzeneacetamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-3-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-75-9 CAPLUS

CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

RN 1101697-76-0 CAPLUS

CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1101697-77-1 CAPLUS

CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101697-83-9 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-

6(1H)-y1)carbony1]pheny1]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1101697-84-0 CAPLUS

CN Benzamide, 2,6-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101697-85-1 CAPLUS

CN Benzamide, 2,6-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101697-86-2 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,6-dimethyl- (CA INDEX NAME)

- RN 1101697-87-3 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(lH)-yl)carbonyl]phenyl]-2,6-dimethyl- (CA INDEX NAME)

- RN 1101697-88-4 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101697-89-5 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101697-90-8 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-91-9 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-92-0 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

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RN 1101697-93-1 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

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RN 1101697-94-2 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-5-fluoro- (CA INDEX NAME)

10/565,702

RN 1101697-95-3 CAPLUS
CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro (CA INDEX NAME)

RN 1101697-96-4 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-nitro- (CA INDEX NAME)

RN 1101697-97-5 CAPLUS CN Benzamide, N-(3-chlo

Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-nitro- (CA INDEX NAME)

RN 1101697-98-6 CAPLUS

CN Benzamide, 2-amino-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-

6(1H)-y1)carbonyl]phenyl]- (CA INDEX NAME)

RN

1101697-99-7 CAPLUS

CN Benzamide, 2-amino-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101698-00-3 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(dimethylamino)- (CA INDEX NAME)

- RN 1101698-01-4 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(dimethylamino)- (CA INDEX NAME)

RN 1101698-02-5 CAPLUS

CN Benzamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

RN 1101698-03-6 CAPLUS

Benzamide, 2,3-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

CN

- RN 1101698-04-7 CAPLUS
- CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101698-05-8 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro-6-(trifluoromethyl)- (CA INDEX NAME)

1101698-06-9 CAPLUS
Benzamide, 2,3,5-trichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-CN b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101698-08-1 CAPLUS

Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(methylamino)- (CA INDEX NAME) CN

RN 1101698-09-2 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(methylamino)- (CA INDEX NAME)

RN 1101698-10-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-

y1)carbony1]pheny1]-3-(trifluoromethy1)- (CA INDEX NAME)

RN 1101698-11-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

RN 1101698-12-7 CAPLUS

CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

$$\begin{array}{c|c} H & S & O & Me \\ \hline N & NH-C-CH_2 \\ \end{array}$$

- RN 1101698-13-8 CAPLUS
- CN Benzeneacetamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbony1]-2-pyridiny1]-2-methy1- (CA INDEX NAME)

- RN 1101698-14-9 CAPLUS
- CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,5-dimethyl- (CA INDEX NAME)

- RN 1101698-40-1 CAPLUS
- CN Benzamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro- (CA INDEX NAME)

RN 1101698-41-2 CAPLUS CN Benzamide, 5-amino-2-

Benzamide, 5-amino-2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101698-42-3 CAPLUS

Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

CN

RN 1101698-43-4 CAPLUS CN Benzamide, N-[4-[(4.5

Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro-6-(trifluoromethyl)- (CA INDEX NAME)

RN 1101698-44-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-

yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

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RN 1101698-45-6 CAPLUS

CN Benzamide, 4-amino-2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

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NH2

- RN 1175342-15-0 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazino[2,3-b]pyrazolo[3,4-d]azepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

1175342-16-1 CAPLUS
Benzamide, 2, 5-dichloro-N-[4-[(4,5-dihydropyrazino[2,3-b]pyrazolo[3,4-d]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME) CN

RN

 $1175342-17-2 \quad \text{CAPLUS} \\ \text{Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydropyrazino[2,3-b]pyrazolo[3,4-b]pyrazol$ d]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

RN 1200803-49-1 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)yl)carbonyl]phenyl]-2-(2-pyridinyl)- (CA INDEX NAME)

RN 1200803-55-9 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-

v1)carbonv1|phenv1|-2-(2-thienv1)- (CA INDEX NAME)

IT 203636-61-7P 203636-62-8P 203636-63-9P 203636-64-0P 203636-66-2P 203636-67-3P 203636-68-4P 203636-69-5P 203636-70-8P

203636-71-9P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of tricyclic benzazepine derivs. as vasopressin antagonists)

RN 203636-61-7 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

RN 203636-62-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 203636-63-9 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 203636-64-0 CAPLUS

CN Benzamide, 5-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro- (CA INDEX NAME)

RN 203636-66-2 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 203636-67-3 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 203636-68-4 CAPLUS

CN Methanone, [1,1'-biphenyl]-4-yl(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)- (CA INDEX NAME)

- RN 203636-69-5 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

- RN 203636-70-8 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 203636-71-9 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

II 203636-73-1 RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of tricyclic benzazepine derivs. as vasopressin antagonists) RN 203636-73-1 CAPLUS

CN Methanone, (4-amino-2-chlorophenyl)(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)- (CA INDEX NAME)

III 180339-70-2P 180339-71-3P 180339-94-0P
180339-95-1P 180340-73-2P 203636-53-7P
RI: RCI (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACI

(Reactant or reagent)
(preparation of tricyclic benzazepine derivs. as vasopressin antagonists)

RN 180339-70-2 CAPLUS

CN Methanone, (2-chloro-4-nitrophenyl) (4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)- (CA INDEX NAME)

RN 180339-71-3 CAPLUS

CN Methanone, (4-amino-2-chlorophenyl)(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)- (CA INDEX NAME)

RN 180339-94-0 CAPLUS

CN Methanone, (4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)(4-nitrophenyl)- (CA INDEX NAME)

RN 180339-95-1 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)- (CA INDEX NAME)

RN 180340-73-2 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)- (CA INDEX NAME)

RN 203636-53-7 CAPLUS

CN Methanone, (4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)(4-nitrophenyl)- (CA INDEX NAME)

OS.CITING REF COUNT:

- 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
- REFERENCE COUNT:
- 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 60 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1998:13962 CAPLUS

DOCUMENT NUMBER: 128:75393

ORIGINAL REFERENCE NO.: 128:14747a,14750a

TITLE: Preparation of tricyclic benzazepines as vasopressin

antagonists

INVENTOR(S): Albright, Jay Donald; Reich, Marvin Fred

PATENT ASSIGNEE(S): American Cvanamid Company, USA

SOURCE: PCT Int. Appl., 289 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 10

PATENT INFORMATION:

PATENT NO.				KIND		DATE		APPLICATION NO.						DATE			
				A1		19971218		WO 1997-US9548					19970603				
W:	AL,	AU,	BA,	BB,	BG,	BR,	CA,	CN,	CU,	CZ,	EE,	GE,	GH,	HU,	IL,	IS,	
	JP,	KP,	KR,	LC,	LK,	LR,	LT,	LV,	MG,	MK,	MN,	MX,	NO,	NZ,	PL,	RO,	
	RU,	SG,	SI,	SK,	TR,	TT,	UA,	UZ,	VN,	YU,	AM,	AZ,	BY,	KG,	KZ,	MD,	
	TJ,	TM															
RW:	GH,	KE,	LS,	MW,	SD,	SZ,	UG,	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,	
	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	
	ML,	MR,	NE,	SN,	TD,	TG											
AU 9732964				A 19980107				AU 1997-32964					19970603				
PRIORITY APPLN. INFO.:							US 1996-663400					A 19960613					
									WO 1	997-	US95	48	1	7 1	9970	603	
OTHER SOURCE(S): GI			MARI	PAT	128:	7539:	3										

AB The title compds. [I; Y = a bond, CH2; AB = (CH2)2NR3, NR3(CH2)2; R1 = H, halo, OH, etc.; R1R2 = methylenedioxy, ethylenedioxy; R3 = C(O)Ar; Ar = (un)substituted Ph, 5-indolyl, thienyl, etc.; Z = (un)substituted fused pyrazole, benzene, etc.] and their salts which exhibit vasopressin antagonist activity and are useful in treating

diseases characterized by excess renal reabsorption of water, were prepared Thus, reaction of 4-(12-methylbenzoyl)amino|benzoyl chloride with 6,11-dihydro-5H-dibenz[b,e]azepine in the presence of Et3N in THF afforded the title compound II which showed IC50 of 0.15 μM against rat hepatic V1 receptor binding and IC50 of 0.068 μM against rat kidney medullary V2 receptor binding. Compound II also showed 73% inhibition of oxytocin receptor binding at 10 μM .

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1099466-59-7
1099466-57-5
                 1099466-58-6
1099466-60-0
                 1099471-79-0
                                   1099471-80-3
1099471-81-4
                 1099471-82-5
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1099471-87-0
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1099471-93-8
                 1101631-21-3
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1101631-26-8
                 1101631-28-0
1101631-30-4
                 1101631-31-5
                                   1101631-32-6
1101631-33-7
                 1101631-35-9
```

RL: PRPH (Prophetic)

(Preparation of tricyclic benzazepines as vasopressin antagonists)

RN 1099466-57-5 CAPLUS CN Benzamide, N-[4-[(4,

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099466-58-6 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]-3-methoxyphenyl]-2-methyl- (CA INDEX NAME)

 $\label{eq:continuous} \begin{tabular}{ll} 1099466-59-7 & CAPLUS \\ Benzamide, & 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yllcarbonyl]-3-methoxyphenyl]-4-fluoro- (CA INDEX NAME) \\ \end{tabular}$ CN

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RN 1099466-60-0 CAPLUS

CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]- (CA INDEX NAME)

RN 1099471-79-0 CAPLUS

CN Benzamide, 4-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

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- RN
- 1099471-80-3 CAPLUS
 Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME) CN

RN 1099471-81-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1099471-82-5 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1099471-83-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-84-7 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

RN 1099471-85-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1099471-86-9 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbony1]pheny1]-3-fluoro-2-methy1- (CA INDEX NAME)

- RN 1099471-87-0 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099471-88-1 CAPLUS
- CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

PAGE 2-A

RN 1099471-89-2 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

PAGE 2-A

RN 1099471-90-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

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RN 1099471-91-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099471-92-7 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-5-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-93-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-6-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101631-21-3 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-22-4 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101631-23-5 CAPLUS

N Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 1101631-24-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-25-7 CAPLUS

Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

RN 1101631-26-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101631-28-0 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]-3-methylphenyl]-2-methyl- (CA INDEX NAME)

- RN 1101631-29-1 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbony1]-3-methylpheny1]-2,3-dimethyl- (CA INDEX NAME)

RN 1101631-30-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-31-5 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]-3-methylphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-32-6 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

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- RN 1101631-33-7 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101631-35-9 CAPLUS
- CN Benzamide, N-[4-(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

- 169879-79-2P
 - RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
- (preparation of tricyclic benzazepines as vasopressin antagonists) 169879-79-2 CAPLUS
- RN
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6v1)carbonv1]phenv1]-2-methv1- (CA INDEX NAME)

IT 200729-57-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of tricyclic benzazepines as vasopressin antagonists) $\mbox{RN} \quad 200729-57-3 \quad \mbox{CAPLUS}$

Methanone, (4-aminophenyl)(4,5-dihydropyrazolo[4,3-d][1]benzazepin-6(1H)-yl)- (CA INDEX NAME)

IT 169878-98-2P 169878-99-3P 200729-55-1P

200729-56-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of tricyclic benzazepines as vasopressin antagonists)

RN 169878-98-2 CAPLUS

CN Methanone, (4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)(4nitrophenyl)- (CA INDEX NAME)

RN 169878-99-3 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)- (CA INDEX NAME)

RN 200729-55-1 CAPLUS

CN Methanone, (2-chloro-4-nitrophenyl) (4,5-dihydropyrazolo[4,3-d][1]benzazepin-6(1H)-yl)- (CA INDEX NAME)

RN 200729-56-2 CAPLUS

CN Methanone, (4-amino-2-chlorophenyl)(4,5-dihydropyrazolo[4,3-d][1]benzazepin-6(1H)-yl)- (CA INDEX NAME)

OS.CITING REF COUNT:

3

- REFERENCE COUNT:
- THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
- THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 61 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN 1997:772293 CAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER: 128:48246

ORIGINAL REFERENCE NO.: 128:9479a,9482a

TITLE: Preparation of tricyclic benzazepines as vasopressin

antagonists

INVENTOR(S): Albright, Jay Donald; Reich, Marvin Fred

PATENT ASSIGNEE(S): American Cyanamid Co., USA

1.0

SOURCE: U.S., 103 pp., Cont.-in-part of U.S. Ser. No. 639,014.

CODEN: USXXAM DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	TENT				KIN)	DATE			APPL	ICAT	ION	NO.		D.	ATE	
US	5693 5512	635			A A		1997 1996				996- 994-:						
	NZ 299340			A				NZ 1994-299340									
	5869				A		19990209		US 1996-639014								
WO	9747	625			A1	19971218			WO 1997-US9549				19970603				
	₩:	AL,	AU,	BA,	BB,	BG,	BR,	CA,	CN,	CU,	CZ,	EE,	GE,	GH,	HU,	IL,	IS,
		JP,	KP,	KR,	LC,	LK,	LR,	LT,	LV,	MG,	MK,	MN,	MX,	NO,	NZ,	PL,	RO,
		RU,	SG,	SI,	SK,	TR,	TT,	UA,	UZ,	VN,	YU,	AM,	AZ,	BY,	KG,	KZ,	MD,
		TJ,	TM														
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		GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,
		ML,	MR,	NE,	SN,	TD,	TG										
AU 9732965			A	19980107			AU 1997-32965				19970603						
PRIORITY APPLN. INFO.:					US 1993-100				1000	03	B2 19930729						
					US 1994-254823					23	A2 19940613						
										US 1	996-	6390	14		A2 1	9960	424
										NZ 1	994-	2641	16	- 1	A1 1	9940	728
										US 1	996-	6625	46		A 1	9960	613
										WO 1	997-1	JS95	49	1	W 1	9970	603

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 128:48246 GI

$$\begin{bmatrix} R^1 & & & \\ & & & \\ Z & & & \\ & & & \\ A-B & R^2 & & \\ & & & \\ H & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

The title compds. [I; Y = a bond; AB= (CH2)2NR3, NR3(CH2)2; R1 = H, halo,

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OH, etc.; R2 = H, halo, OH, etc.; R1R2 = methylenedioxy, ethylenedioxy; R3 = COAr (wherein Ar = substituted Ph); Z with two carbon atoms attached represents a (un)substituted fused thiophene ring, Ph, etc.] which exhibit antagonist activity at VI and/or VZ receptors, in vivo vasopressin antagonist activity, and also antagonist activity at oxytocin receptors, and are useful in treating diseases characterized by excess renal reabsorption of water, were prepared Thus, reaction of 4-(12\text{-methylbenzoyl})\text{amino}\text{|benzoyl}\text{ chloride}\text{ with } 10,11-\text{dihydro-SH-dibenz}\text{|b,f}\text{|azepine}\text{ in the presence of NaH and } 4-(dimethylamino)pyridine in pyridine afforded II which showed IC50 of 2.5 MM against rat hepatic VI receptor binding and IC50 of 0.86 <math display="inline">\mu\text{M} against rat kidney medullary V2 receptor binding.
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1099471-79-0
                 1099471-80-3
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1101631-21-3
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                                   1101631-33-7
                 1230705-29-9
1101631-35-9
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RL: PRPH (Prophetic)

(Preparation of tricyclic benzazepines as vasopressin antagonists)

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6v1)carbonv1]-3-methoxyohenv1]-5-fluoro-2-methy1- (CA INDEX NAME)

RN 1099466-58-6 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-v1)carbony1|-3-methoxypheny1]-2-methy1- (CA INDEX NAME)

1099466-59-7 CAPLUS
Benzamide, 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yllcarbonyl]-3-methoxyphenyl]-4-fluoro- (CA INDEX NAME) CN

PAGE 1-A

RN 1099471-79-0 CAPLUS

CN Benzamide, 4-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

Cl

RN 1099471-80-3 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1099471-81-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1099471-82-5 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1099471-83-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-84-7 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

RN 1099471-85-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazejin-6-yl]carbonyl]phenyl]- (CA INDEX NAME)

RN 1099471-86-9 CAPLUS
CN Benzamide, N-[4-](4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099471-87-0 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099471-88-1 CAPLUS
- CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

RN 1099471-89-2 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-90-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 1099471-91-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

RN 1099471-92-7 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-5-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-93-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-6-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101631-21-3 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-22-4 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101631-23-5 CAPLUS

Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 1101631-24-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-25-7 CAPLUS

CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

RN 1101631-26-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101631-28-0 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]-3-methylphenyl]-2-methyl- (CA INDEX NAME)

- RN 1101631-29-1 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbony1]-3-methylpheny1]-2,3-dimethyl- (CA INDEX NAME)

RN 1101631-30-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-31-5 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]-3-methylphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-32-6 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

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- RN 1101631-33-7 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101631-35-9 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1230705-29-9 CAPLUS

CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]- (CA INDEX NAME)

IT 200115-00-0P 200115-04-4P
 RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT

(Reactant or reagent); USES (Uses)

(preparation of tricyclic benzazepines as vasopressin antagonists)

RN 200115-00-0 CAPLUS

CN 4H-Thieno[3,2-d][1]benzazepine-2-carboxylic acid, 6-[4-[(5-fluoro-2-methylbenzoyl)amino]benzoyl]-5,6-dihydro-, ethyl ester (CA INDEX NAME)

PAGE 1-A

RN 200115-04-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

ΙT	169879-79-2P	200115-02-2P	200115-05-5P
	200115-16-8P	200115-29-3P	200115-32-8P
	200115-33-9P	200115-37-3P	200115-38-4P
	200115-39-5P	200115-40-8P	200115-44-2P
	200115-45-3P	200115-46-4P	200115-47-5P
	200115-48-6P	200115-49-7P	200115-73-7P
	200116-00-3P	200116-23-0P	200116-49-0P
	200116-73-0P	200116-82-1P	200116-83-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

- (preparation of tricyclic benzazepines as vasopressin antagonists) RN 169879-79-2 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

200115-02-2 CAPLUS 4H-Thieno(3,2-0][1]benzazepine-2-carboxylic acid, 6-[4-[(5-fluoro-2-methylbenzoyl)amino]benzoyl]-5,6-dihydro- (CA INDEX CN NAME)

PAGE 1-A

RN 200115-05-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 200115-16-8 CAPLUS

CN Benzamide, N-[4-(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-y1)pheny1]-3-fluoro-2-methy1- (CA INDEX NAME)

RN 200115-29-3 CAPLUS

CN Benzamide, N-[4-(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-y1)phenyl]-2-methyl- (CA INDEX NAME)

RN 200115-32-8 CAPLUS

CN Benzamide, N-[4-(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)phenyl]-5fluoro-2-methyl- (CA INDEX NAME)

RN 200115-33-9 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 200115-37-3 CAPLUS

Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

CN

RN 200115-38-4 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 200115-39-5 CAPLUS

Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro- (CA INDEX NAME)

CN

200115-40-8 CAPLUS

CN Benzamide, N-[2,5-dichloro-4-(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6yl)phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN

200115-44-2 CAPLUS Benzamide, N-[3-chloro-4-(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)phenyl]-5-fluoro-2-(methylthio)- (CA INDEX NAME) CN

RN 200115-45-3 CAPLUS
CN Benzamide, 2-chloro-N-[4-(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)phenyl]-5-fluoro- (CA INDEX NAME)

RN 200115-46-4 CAPLUS
CN Benzamide, 3-chloro-N-[3-chloro-4-[(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 200115-47-5 CAPLUS

CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

- RN 200115-48-6 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-thieno[3,2-d]]1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methoxy- (CA INDEX NAME)

RN 200115-49-7 CAPLUS
CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydro-6H-thieno[3,2-d][1])benzazepin-6-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

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PAGE 2-A

- RN 200115-73-7 CAPLUS
- CN Benzamide, N-[4-(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-y1)-3-methylphenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

- RN 200116-00-3 CAPLUS
- CN Benzamide, N-[4-(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)-3-methoxyphenyl]-2-methyl- (CA INDEX NAME)

- RN 200116-23-0 CAPLUS
- CN Benzamide, N-[4-(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)-3-methylphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

- RN 200116-49-0 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-thieno[3,2-d]]1]benzazepin-6-y1)carbonyl]-3-methoxyphenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 200116-73-0 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)carbonyl]-3-fluorophenyl]-2-methyl- (CA INDEX NAME)

RN 200116-82-1 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-thieno[3,2-d]]1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

200116-83-2 CAPLUS Benzamide, 2-chloro-N-[4-[(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-CN yl)carbonyl]-3-methylphenyl]-5-fluoro- (CA INDEX NAME)

200122-33-4P

200122-36-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of tricyclic benzazepines as vasopressin antagonists)

RN 169878-98-2 CAPLUS

CN Methanone, (4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)(4-nitrophenyl)- (CA INDEX NAME)

RN 169878-99-3 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)- (CA INDEX NAME)

RN 200122-33-4 CAPLUS

CN 4H-Thieno[3,2-d][1]benzazepine-2-carboxylic acid, 5,6-dihydro-6-(4-nitrobenzoyl)-, ethyl ester (CA INDEX NAME)

RN 200122-34-5 CAPLUS

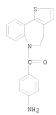
CN 4H-Thieno[3,2-d][1]benzazepine-2-carboxylic acid, 6-(4-aminobenzoyl)-5,6-dihydro-, ethyl ester (CA INDEX NAME)

RN 200122-35-6 CAPLUS

CN 4H-Thieno[3,2-d][1]benzazepine-2-carboxylic acid, 5,6-dihydro-6-(4-nitrobenzoyl)- (CA INDEX NAME)

- RN 200122-36-7 CAPLUS

- RN 200122-37-8 CAPLUS
- CN Methanone, (4-aminophenyl)(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)-(CA INDEX NAME)



- OS.CITING REF COUNT:
- REFERENCE COUNT:
- 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
- 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 62 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1997:735922 CAPLUS DOCUMENT NUMBER: 128:22824

ORIGINAL REFERENCE NO.: 128:4475a,4478a

Pyridobenzoxazepine and pyridobenzothiazepine TITLE:

vasopressin antagonists

INVENTOR(S): Albright, Jav Donald; Du, Xuemei

PATENT ASSIGNEE(S): American Cvanamid Co., USA

SOURCE: U.S., 107 pp., Cont.-in-part of U.S. 5,512,563.

CODEN: USXXAM DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 10

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5686445	A	19971111	US 1996-637908	19960425
US 5512563	A	19960430	US 1994-254823	19940613
NZ 299340	A	20000825	NZ 1994-299340	19940728
US 5854236	A	19981229	US 1997-834706	19970401
PRIORITY APPLN. INFO.:			US 1993-100003 B2	19930729
			US 1994-254823 A2	19940613
			NZ 1994-264116 A1	19940728
			US 1996-637908 A3	19960425

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 128:22824

AB Approx. 80 title compds., primarily N-(substituted

benzoylaminobenzoyl)dibenzazepines, were prepared by N-acylation of the azepine. E.q., acylation of 10,11-dihydro-5H-dibenz[b,f]azepine with o-MeC6H4CONHC6H4COCl-p gave N-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5ylcarbonyl)phenyl]-2-methylbenzamide. The title compds. exhibit

antagonist activity at V1 and/or V2 receptors and extensive data is given for vasopressin antagonist activity.

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1099466-57-5 1099466-58-6
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1099466-60-0
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                              1101631-29-1
1101631-30-4
              1101631-32-6
                              1101631-35-9
              1230763-45-7
```

RL: PRPH (Prophetic)

(Pyridobenzoxazepine and pyridobenzothiazepine vasopressin antagonists)

1146445-27-3 RN 1099466-57-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6v1)carbonv1]-3-methoxyphenv1]-5-fluoro-2-methy1- (CA INDEX NAME)

RN 1099466-58-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]-2-methyl- (CA INDEX NAME)

- RN 1099466-59-7 CAPLUS
- CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]-4-fluoro (CA INDEX NAME)

PAGE 2-A

RN 1099466-60-0 CAPLUS

CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]- (CA INDEX NAME)

RN 1099471-79-0 CAPLUS

CN Benzamide, 4-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

PAGE 2-A

CI

RN 1099471-80-3 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1099471-81-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

RN 1099471-82-5 CAPLUS

CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1099471-83-6 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-84-7 CAPLUS
CN Benzamide, N-[4-](4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

RN 1099471-85-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1099471-86-9 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1099471-87-0 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1099471-88-1 CAPLUS
CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yi)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 1099471-89-2 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 1099471-90-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 1099471-91-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 1099471-92-7 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-5-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-93-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-6-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101631-21-3 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-22-4 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101631-23-5 CAPLUS

N Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 1101631-24-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-25-7 CAPLUS

N Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

RN 1101631-26-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101631-28-0 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-methyl- (CA INDEX NAME)

- RN 1101631-29-1 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbony1]-3-methylpheny1]-2,3-dimethyl- (CA INDEX NAME)

RN 1101631-30-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-32-6 CAPLUS

Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-35-9 CAPLUS
CN Benzamide N=[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1146445-27-3 CAPLUS

CN Benzenecarbothioamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-methyl- (CA INDEX NAME)

RN 1230763-45-7 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]-3-methylphenyl]-3-fluoro-5-methyl- (CA INDEX NAME)

IT 169879-79-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and vasopressin antagonist activity of (benzoylaminobenzoyl)dibenzazepines)

RN 169879-79-2 CAPLUS

CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

IT 169878-98-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and vasopressin antagonist activity of (benzoylaminobenzoyl)dibenzazepines)

RN 169878-98-2 CAPLUS

CN Methanone, (4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)(4-nitrophenyl)- (CA INDEX NAME)

IT 169878-99-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and vasopressin antagonist activity of

(benzoylaminobenzoyl)dibenzazepines)

RN 169878-99-3 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)- (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS

L28 ANSWER 63 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1997:568814 CAPLUS DOCUMENT NUMBER:

127:248029 ORIGINAL REFERENCE NO.: 127:48461a,48464a

Preparation of oxime group-containing benzazepines as TITLE:

arginine vasopressin V1 receptor antagonists for

treatment of diabetic nephropathy

INVENTOR(S): Tanaka, Akihiro; Kono, Norimasa; Matsuhisa, Akira; Shimada, Yoshiaki; Akane, Hiroaki; Yazu, Takevuki

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09221475	A	19970826	JP 1996-25094	19960213
PRIORITY APPLN. INFO.:			JP 1996-25094	19960213
OMITTO COURSE (A)	142 222 2	107 010000		

OTHER SOURCE(S): MARPAT 127:248029

GI For diagram(s), see printed CA Issue. Title compds. I [R1 = (lower alkoxy-substituted) lower alkyl; R2 = H, (lower alkoxy-substituted) lower alkyl; A = Q1, Q2; R3 = H, halo, lower alkyl, (alkyl)amino, lower alkoxy; ring B = (un)substituted N-containing 5-membered heterocyclyl (containing O or S); D1, D2 = bond, lower alkylene, lower alkenylene; R4 = H, lower alkyl, lower alkenyl, cycloalkyl, OH, CO2H, cyano, (un) substituted aryl, etc.; E = Q3, Q4, NR5D5 (the N may be oxidized); m = 0, 1; p = 0-3; D3-D5 = bond, lower alkylene, lower alkenylene; R5 = H, lower alkyl; p, q = 1-3; p + q = 3-5; n = 2-7] or their pharmaceutically acceptable salts are prepared 2-Methoxyiminopropionic acid (147 mg) was chlorinated by oxalyl chloride in CH2C12, then treated with 200 mg

6-(4-aminobenzoy1)-2-methyl-1,4,5,6-tetrahydroimidazo[4,5-d][1]benzazepine under reflux to give 264 mg II.

195531-37-4P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of benzazepines as arginine vasopressin V1 receptor antagonists for treatment of diabetic nephropathy)

RN 195531-37-4 CAPLUS CN

Propanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)v1) carbonv1]phenv1]-2-[(methoxymethoxy)imino]- (CA INDEX NAME)

IT 195530-96-2P 195530-97-3P 195530-98-4P 195530-99-5P 195531-00-1P 195531-01-2P 195531-02-3P 195531-03-4P 195531-04-5P 195531-05-6P 195531-06-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of benzazepines as arginine vasopressin VI receptor antagonists for treatment of diabetic nephropathy)

RN 195530-96-2 CAPLUS

CN Propanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-(methoxyimino)-, hydrochloride (1:1) (CA INDEX NAME)

RN 195530-97-3 CAPLUS

CN Propanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-(ethoxyimino)- (CA INDEX NAME)

- RN 195530-98-4 CAPLUS
- CN Butanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-(methoxyimino)-, hydrochloride (1:1) (CA INDEX NAME)

- RN 195530-99-5 CAPLUS
 - CN Butanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-(hydroxyimino)-, hydrochloride (1:1) (CA INDEX NAME)

- RN 195531-00-1 CAPLUS
- CN Butanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-(ethoxyimino)-, hydrochloride (1:1) (CA INDEX NAME)

- RN 195531-01-2 CAPLUS
- CN Propanamide, N=[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-[(1,1-dimethylethoxy)imino]- (CA INDEX NAME)

- RN
- 195531-02-3 CAPLUS Propanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-[(methoxymethoxy)imino]-, hydrochloride (1:1) (CA INDEX NAME) CN

- RN
- $\label{eq:capeup} 195531-03-4 \quad \text{CAPLUS} \\ \text{Pentanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-1]} \\ \text{Pentanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-1]} \\ \text{Pentanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]]benzazepin-6(1H)-1]} \\ \text{Pentanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-dihy$ CN yl)carbonyl]phenyl]-2-(hydroxyimino)- (CA INDEX NAME)

- RN 195531-04-5 CAPLUS
- CN Pentanamide, N-4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(HH)-yl)carbonyl]phenyl]-2-(methoxyimino)-, hydrochloride (1:1) (CA INDEX NAME)

- RN 195531-05-6 CAPLUS
- CN Butanamide, N-[4-[44,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)yl)carbonyl]phenyl]-2-(methoxyimino)-3-methyl-, hydrochloride (1:1) (CA INDEX NAME)

RN 195531-06-7 CAPLUS

CN Propanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-3-methoxy-2-(methoxyimino)-, hydrochloride (1:1) (CA INDEX NAME)

IT 195531-22-7

RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of benzazepines as arginine vasopressin V1 receptor antagonists for treatment of diabetic nephropathy)

RN 195531-22-7 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)- (CA INDEX NAME)

RN 195531-23-8 CAPLUS

CN Propanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d]]]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-oxo-, hydrochloride (1:1) (CA INDEX NAME)

RN 195531-28-3 CAPLUS

CN Pentanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-oxo- (CA INDEX NAME)

RN 195531-31-8 CAPLUS

CN Butanamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-3-methyl-2-oxo- (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L28 ANSWER 64 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1997:140708 CAPLUS DOCUMENT NUMBER: 126:131678

ORIGINAL REFERENCE NO.: 126:25437a,25440a

Flow Thermolysis Rearrangements in the Indole Alkaloid TITLE:

Series: Strictamine and Akuammicine Derivatives. The

Absolute Configurations of Ngouniensine and

epi-Ngouniensine AUTHOR(S):

Hugel, Georgette; Royer, Daniel; Le Men-Olivier,

Louisette; Richard, Bernard; Jacquier, Marie-Jose;

Levy, Jean

CORPORATE SOURCE: Laboratoire de Transformations et Synthese de

Substances Naturelles et Laboratoire de

Pharmacognosie, Universite de Reims Champagne-Ardenne

Faculte de Pharmacie, Reims, F-51096, Fr.

CH₂

Journal of Organic Chemistry (1997), 62(3), 578-583 CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 126:131678

GI

SOURCE:

- Flow thermolysis of strictamine generated two of the predictable rearrangement products, resulting from [1,5]-sigmatropic shifts: akuammicine and indolenine I. Besides formation of these two compds., a quite different pathway gave rise to a novel rearrangement leading to a indole, with the framework of the natural alkaloid ngouniensine. Rearrangement to the ngouniensine skeleton became the major pathway when the akuammicine derivs. were submitted to thermolysis. These results allowed us to assign the absolute configuration of (-)-ngouniensine (II) (3R, 20R) and that of (-)-epingouniensine (3R, 20S).
- 186252-97-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(flow thermolysis rearrangements of indole alkaloids strictamine and akuammicine derivs., absolute configurations of ngouniensine and epi-ngouniensine)

RN 186252-97-1 CAPLUS

CN 5H-Pyrido[1',2':1,2]azepino[4,5-b]indole-6-carboxaldehyde, 9-ethyl-9,10,12,13-tetrahydro-, (9S)- (CA INDEX NAME)

Absolute stereochemistry.

30

- OS.CITING REF COUNT:
- REFERENCE COUNT:
- THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
 - (6 CITINGS)
 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 65 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN 1996:725149 CAPLUS

ACCESSION NUMBER:

DOCUMENT NUMBER: 126:74775

ORIGINAL REFERENCE NO.: 126:14473a,14476a

Synthesis and biological activity of some new TITLE:

heterocyclic annelated compounds from

2,3,4,5-tetrahydro-1-benzazepines

AUTHOR(S): Peesapati, Venkateswarlu; Anuradha, Kancharla

CORPORATE SOURCE: Dep. Chem., Osmania Univ., Hyderabad, 500 007, India SOURCE: Indian Journal of Chemistry, Section B: Organic

Chemistry Including Medicinal Chemistry (1996),

35B(12), 1287-1293

CODEN: IJSBDB; ISSN: 0376-4699

PUBLISHER: Publications & Information Directorate, CSIR

DOCUMENT TYPE: Journal LANGUAGE:

English

Synthesis of a number of tricyclic compds. with a fused isoxazole, pyrazole, thiophene and thiadiazole ring systems starting from 4-methoxycarbonyl and 4-hydroxymethylene-2,3,4,5-tetrahydro-1-tosyl-1-benzazepin-5(1H)-one has been described. These compds, are effective bactericides and funcicides.

185348-99-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study. unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation and biol. activity of heterocyclic annelated

tetrahvdrobenzazepines)

RN 185348-99-6 CAPLUS

CN 4H-Isoxazolo[4,5-d][1]benzazepine,

5,6-dihydro-8,9-dimethoxy-6-[(4-methylphenyl)sulfonyl]- (CA INDEX NAME)

185349-20-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and biol. activity of heterocyclic annelated

tetrahydrobenzazepines)

RN 185349-20-6 CAPLUS

4H-Thieno[3,2-d][1]benzazepine-2-carboxylic acid,

5,6-dihydro-8,9-dimethoxy-6-[(4-methylphenyl)sulfonyl]-, methyl ester (CA

INDEX NAME)

IT 185349-38-6P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 185349-38-6 CAPLUS

CN Pyrazolo[4,3-d][1]benzazepin-3(2H)-one,

1,4,5,6-tetrahydro-8,9-dimethoxy-6-[(4-methylphenyl)sulfonyl]- (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

REFERENCE COUNT:

9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L28 ANSWER 66 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1996:641143 CAPLUS DOCUMENT NUMBER: 125:275872

ORIGINAL REFERENCE NO.: 125:51601a,51604a

TITLE:

Method for industrial manufacture of condensed benzazepine derivatives as AVP antagonists INVENTOR(S): Tsunoda, Takashi; Yamazaki, Atsuki; Tanaka, Akihiro

PATENT ASSIGNEE(S): Yamanouchi Pharma Co Ltd. Japan; Astellas Pharma Inc. Jpn. Kokai Tokkyo Koho, 22 pp.

SOURCE: CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08198879	A	19960806	JP 1995-6172	19950119
JP 3733606	B2	20060111		
JP 2004231668	A	20040819	JP 2004-146924	20040517
JP 4085178	B2	20080514		
PRIORITY APPLN. INFO.:			JP 1995-6172 A3	19950119
OTHER SOURCE(S):	MARPAT	125:275872		

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Benzazepine derivs. [I; R1, R2 = H, halo, lower alkyl, alkoxy, etc.; R3 = AB H, alkyl, alkenyl, imidazolyl, pyridinyl, etc.; X1, X2 = N, O, S, NR4 (wherein R4 = H, alkyl, etc.); ring C is optionally substituted], useful as AVP antagonists (no data), are manufactured with good yields in two ways: (1) by reacting intermediate II (Ra = protecting group) with III; or (2) by reacting intermediate IV with V. Thus, VI was prepared by reacting 2-phenylbenzoic acid with 6-(4-aminobenzoyl)-2-methyl-1,4,5,6tetrahydroimidazo[4,5-d][1]benzazepine (preparation given). VI was also prepared

by reacting 4-(2-phenylbenzamido)benzoic acid with

2-methyl-1, 4, 5, 6-tetrahydroimidazo[4, 5-d][1]benzazepine. 182202-73-9P

182202-69-3P 182202-71-7P 182202-75-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(industrial manufacture of condensed benzazepine derivs, useful as AVP antagonists)

RN 182202-69-3 CAPLUS

Imidazo[4,5-d][1]benzazepine, 1,4,5,6-tetrahydro-2-methyl-6-[(4-CN methylphenyl)sulfonyl]-, hydrochloride (1:1) (CA INDEX NAME)

- HCl
- $182202-71-7 \quad CAPLUS \\ \mbox{Methanone, } (4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{d}][1] \\ \mbox{benzazepin-6}(1\mbox{H})-y1) (4-\mbox{Hermitian}) \\ \mbox{defined}(4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{d}][1] \\ \mbox{benzazepin-6}(1\mbox{H})-y1) (4-\mbox{Hermitian}) \\ \mbox{defined}(4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{d}][1] \\ \mbox{benzazepin-6}(1\mbox{H})-y1) (4-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{d}][1] \\ \mbox{defined}(4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{d}][1] \\ \mbox{defined}(4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimidazo}[4,5-\mbox{dihydro-2-methylimid$ CN nitrophenyl)-, hydrochloride (1:1) (CA INDEX NAME)

- HCl
- 182202-73-9 CAPLUS
- Imidazo[4,5-d][1]benzazepine, 1,4,5,6-tetrahydro-2-methyl-, hydrochloride CN (1:1) (CA INDEX NAME)

HC1

RN 182202-75-1 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)-, hydrochloride(1:1) (CA INDEX NAME)

● HCl

L28 ANSWER 67 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1996:567275 CAPLUS DOCUMENT NUMBER: 125:221884

ORIGINAL REFERENCE NO.: 125:41473a,41476a

TITLE: Preparation of tricyclic benzazepines and benzodiazepines as vasopressin antagonists

INVENTOR(S): Albright, Jav Donald; Venkatesan, Aranapakam Mudumbai;

Delos Santos, Efren Guillermo

PATENT ASSIGNEE(S): American Cyanamid Company, USA

SOURCE: PCT Int. Appl., 357 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.					KIN	ND DATE APPLICATION NO.							DATE						
WO 9622282			A1	19960725			WO 1996-US1051						19960116						
	W:	AL,	AM,	AU,	BB,	BG,	BR,	CA,	CN,	CZ,	EE,	FI,	GE,	HU,	IS,	JP,	KG,		
		KP,	KR,	LK,	LR,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MX,	NO,	NZ,	PL,	RO,		
		SG,	SI,	SK,	TR,	TT,	UA,	UZ,	VN,	AZ,	BY,	KZ,	RU,	TJ,	TM				
	RW:	KE,	LS,	MW,	SD,	SZ,	UG,	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IE,		
		IT,	LU,	MC,	NL,	PT,	SE,	BF,	ΒJ,	CF,	CG,	CI,	CM,	GA,	GN,	ML,	MR,		
		NE,	SN,	TD,	TG														
US	5849	735			A	A 19981215				US 1995-548805						19951222			
ΑU	9649	042			A		1996	0807		AU 1	996-	4904	2		1:	9960	116		
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	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	PT,	IE,		
		SI,	LT,	LV															
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										WO 1	996-	US10	51	1	W 1	9960	116		
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 125:221884 GΙ

AΒ The title compds. [I; Y = (CH2)n (wherein n = 0-2), O, S, etc.; AB =(N-substituted) (CH2)mNH, NH(CH2)m (wherein m = 1-2); R1, R2 = H, halo, OH, etc.; Z = (substituted) fused Ph, 5-membered fused heteroary1, etc.] which exhibit antagonist activity at V1 and/or V2 receptors and therefore useful as diuretics and antihypertensives, and in the treatment and/or prevention of congestive heart failure, liver cirrhosis, brain edema, cerebral ischemia, cerebral hemorrhage-stroke, thrombosis-bleeding, etc., were prepared Thus, reaction of 10,11-dihydrodibenz[b,f][1,4]oxazepine with 6-[(5-fluoro-2-methylbenzoyl)amino]pyridine-3-carbonyl chloride in the presence of Bt3N in CH2Cl2 afforded the desired product II which showed IC50 of 0.24 µM against rat hepatic V1 receptors and of 0.054 µM against rat kidney medullary V2 receptors.

IT 181131-09-9P 181131-20-4P 181131-51-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of tricyclic benzazepines and benzodiazepines as vasopressin antagonists)

RN 181131-09-9 CAPLUS

CN Benzamide, N-[5-(4,5-dihydro-6H-thieno[3,2-d][1]benzazepin-6-yl)carbonyl]-2-pyridinyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 181131-20-4 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[5-[(4,5-dihydro-6H-thieno[3,2-d]|1]benzazepin-6-vl)carbonvl]-2-pyridinvl]- (CA INDEX NAME)

RN 181131-51-1 CAPLUS
CN Methanone, [1,1'-biphenyl]-4-yl(4,5-dihydropyrazolo[4,3-d][1]benzazepin-6(1H)-yl)- (CA INDEX NAME)

OS.CITING REF COUNT:

12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

REFERENCE COUNT:

6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 68 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1996:452764 CAPLUS DOCUMENT NUMBER: 125:167976

ORIGINAL REFERENCE NO.: 125:31481a,31484a

TITLE: Tricyclic azepine oxytocin and vasopressin receptor

antagonists

INVENTOR(S): Albright, Jav D.; Delos Santos, Efren G.; Du, Xuemei; Reich, Marvin E.; Venkatesan, Aranapakam M.

American Cyanamid Co., USA PATENT ASSIGNEE(S):

SOURCE:

U.S., 53 pp. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

	PATENT NO.									APPLICATION NO.						DATE		
											1005		10050117					
05	0000	233	A A			1996	0702		05	1995-	-2/21	19950117						
ZA	9600.	299			A			0715		ZA	1996-	-299		19960115				
WO								WO 1996-US1472 CN, CZ, EE, FI, GE,										
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	RW:																	
							SE,	BF,	BJ,	CE	, CG,	CI,	CM,	GA,	GN,	ML,	MR,	
		NE,	SN,	TD,	TG										-			
AU	AU 9647755 EP 804440				A	1996	0807		AU	1996-	4775	19960116						
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	8044																	
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		SI,	LT,	LV														
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CN	1061	658			С		2001	0207										
HU	9702	219			A2		1998	0728		HU	1997-	2219			1	9960	116	
HU	9702	219			A3		1999	0528										
JP	1051	2867			T		1998	1208		JΡ	1996-	-5224	62		1:	9960	116	
JP	4219	978			B2		2009											
NZ	3021	59			A		2000	0128		NZ	1996-	-3021	59		1	9960	116	
IL	1167	73			A		2000	1206		IL	1996-	-1167	73		1:	9960	116	
TW	4266 3815	84			В		2001	0321		TW	1996-	8510	0459		1	9960	116	
AT	3815	70			T		2008	0115		ΑT	1996-	9037	77		1	9960	116	
ES	2297	835			Т3		2008	0501		ES	1996-	9037	77		1	9960	116	
US	5719	278			A		1998	0217		US	1996-	6578	30		15	9960		
PRIORIT:	APP:	LN.	INFO	. :						US	1995-	-3731	39		A 15	9950	117	
											1996-							

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 125:167976

GI

AB Title tricyclic compds. I are provided wherein: Y = e.g., bond, CH2, CH(OH); A-B is a moiety selected from (CH2)nNR3 and NR3(CH2)n where n = 1 or 2 provided that when Y = bond, n = 2; ring Z represents: (1) an unsatd. 6-membered heterocyclic aromatic ring containing one nitrogen atom, optionally substituted by one or two substituents selected from C1-3 lower alkyl, halogen, amino, C1-3 lower alkoxy or C1-3 lower alkylamino; (2) a 5-membered aromatic (unsatd.) heterocyclic ring having one heteroatom selected from O, or S; ring E represents: (1) an unsatd. 6-membered heterocyclic aromatic ring containing one or two nitrogen atoms, optionally substituted by one or two substituents selected from C1-3 lower alkyl, halogen, amino, C1-3 lower alkoxy or C1-3 lower alkylamino; (2) a 5-membered aromatic (unsatd.) heterocyclic ring having one heteroatom selected from O, N or S; (3) a 5-membered aromatic (unsatd.) heterocyclic ring having two adjacent nitrogen atoms; (4) a 5-membered aromatic (unsatd.) heterocyclic ring having one nitrogen atom together with either one oxygen or one sulfur atom; wherein the 5 or 6-membered heterocyclic rings are optionally substituted by C1-3 lower alkyl, halogen, or C1-3 lower alkoxy; R3 = COAr where Ar = substituted Ph, furyl, thienyl, pyrrolyl, thiazolyl, pyridyl. Thus, e.g., acylation of 6-(4-aminobenzoyl)-1,4,5,6-tetrahydropyrazolo[3,4-d]thieno[3,2-b]azepine (preparation given) with 2-chloro-4-fluorobenzoyl chloride afforded N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)yl)carbonyl]phenyl]-2-chloro-4-fluorobenzamide (II) which exhibited IC50 = 2.0 and 0.34 µM, resp., for binding to rat hepatic V1 receptors and rat kidney medullary V2 receptors, and IC50 = 2.5 µM for binding to oxytocin receptors. N-[4-[(4,5-Dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-v1)carbonv11-3-chlorophenv11-5-fluoro-2-methylbenzamide exhibited IC50 = $0.0061 \mu M$ for V2 receptor binding.

203636-64-0 203636-66-2 1101696-19-8 1101696-20-1 1101696-21-2 1101696-22-3 1101696-24-5 1101696-25-6 1101696-26-7 1101696-27-8 1101696-28-9 1101696-29-0 1101696-30-3 1101696-31-4 1101696-32-5 1101696-33-6 1101696-34-7 1101696-35-8 1101696-36-9 1101696-37-0 1101696-38-1 1101696-39-2 1101696-40-5 1101696-41-6 1101696-42-7 1101696-43-8 1101696-44-9 1101696-45-0 1101696-46-1 1101696-47-2 1101696-49-4 1101696-50-7 1101696-51-8 1101696-52-9 1101696-53-0 1101696-54-1 1101696-55-2 1101696-57-4 1101696-58-5 1101696-59-6 1101696-60-9 1101696-61-0 1101696-62-1 1101696-63-2 1101696-64-3

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1229796-17-1
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RL: PRPH (Prophetic)
(Tricyclic azepin

RN

⁽Tricyclic azepine oxytocin and vasopressin receptor antagonists)

Benzamide, 5-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbony1]pheny1]-2-fluoro- (CA INDEX NAME)

- RN 203636-66-2 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

- RN 1101696-19-8 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 1101696-20-1 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101696-21-2 CAPLUS

Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbony1]pheny1]-2-(phenylmethy1)- (CA INDEX NAME)

RN 1101696-22-3 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101696-24-5 CAPLUS

CN Benzamide, 2-bromo-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-

6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

RN 1101696-25-6 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,4-difluoro- (CA INDEX NAME)

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RN 1101696-26-7 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

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RN 1101696-27-8 CAPLUS

CN Benzamide, 5-bromo-2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

1101696-28-9 CAPLUS RN

CN Benzamide, N-[3-bromo-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN

 $\label{eq:local_local_sum} 1101696-29-0 \quad \text{CAPLUS} \\ \text{Benzamide, 2,5-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-d]py$ b]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

RN 1101696-30-3 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101696-31-4 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-

6(1H)-y1)carbony1]pheny1]-5-fluoro- (CA INDEX NAME)

RN

1101696-32-5 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-(trifluoromethyl)- (CA INDEX NAME)

RN 1101696-33-6 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-6-fluoro- (CA INDEX NAME)

- RN 1101696-34-7 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,6-dimethyl- (CA INDEX NAME)

- RN 1101696-35-8 CAPLUS
- CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]-5-fluoro- (CA INDEX NAME)

- RN 1101696-36-9 CAPLUS
- CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

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1101696-37-0 CAPLUS

RN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME) CN

 $1101696-38-1 \quad CAPLUS \\ Benzamide, 2,3,5-trichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-dihydropyrazolo[3,4-d]pyrido[2,4-d]pyrido[$ CN b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101696-39-2 CAPLUS CN

Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

RN 1101696-40-5 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]-4-nitro- (CA INDEX NAME)

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RN 1101696-41-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,5-dimethyl- (CA INDEX NAME)

RN 1101696-42-7 CAPLUS

CN Benzamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

RN 1101696-43-8 CAPLUS CN Benzamide, 2-chloro-N-

Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-(methylthio)- (CA INDEX NAME)

RN 1101696-44-9 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-fluoro-4-(trifluoromethyl)- (CA INDEX NAME)

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RN 1101696-45-0 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-nitro- (CA INDEX NAME)

10/565,702

RN 1101696-46-1 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro- (CA INDEX NAME)

RN 1101696-47-2 CAPLUS

N Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1101696-49-4 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)yl)carbonyl]-2-pyridinyl]-3,4,5-trimethoxy- (CA INDEX NAME)

RN 1101696-50-7 CAPLUS

CN Benzamide, 2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101696-51-8 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbony1]-2-pyridiny1]-2,4-difluoro (CA INDEX NAME)

RN 1101696-52-9 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101696-53-0 CAPLUS

CN Benzamide, 2-bromo-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101696-54-1 CAPLUS

CN Benzamide, 5-bromo-2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101696-55-2 CAPLUS

CN Benzamide, N-[3-bromo-5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-methyl- (CA INDEX NAME)

RN 1101696-57-4 CAPLUS

CN Benzamide, 2,5-dichloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101696-58-5 CAPLUS

CN Benzamide, 2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-5-fluoro- (CA INDEX NAME)

RN 1101696-59-6 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101696-60-9 CAPLUS

CN Benzamide, 2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]-5-(trifluoromethyl)- (CA INDEX NAME)

1101696-61-0 CAPLUS RN

Benzamide, 2,6-dichloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-CN b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

1101696-62-1 CAPLUS RN

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)y1)carbony1]-2-pyridiny1]-2-(2-pyridiny1)- (CA INDEX NAME)

RN

1101696-63-2 CAPLUS Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-CN yl)carbonyl]-2-pyridinyl]-2-(2-thienyl)- (CA INDEX NAME)

RN 1101696-64-3 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2,6-dimethyl- (CA INDEX NAME)

RN 1101696-67-6 CAPLUS

CN Benzamide, 2,3-dichloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101696-68-7 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]-2-methoxy- (CA INDEX NAME)

RN 1101696-69-8 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1101696-70-1 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)yl)carbonyl]-2-pyridinyl]-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1101696-71-2 CAPLUS

CN Benzamide, 2,3,5-trichloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

- RN 1101696-72-3 CAPLUS
- CN Benzamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro- (CA INDEX NAME)

- RN 1101696-73-4 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101696-79-0 CAPLUS
CN 3-Pyridinecarboxamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(lH)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101696-80-3 CAPLUS
CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101696-81-4 CAPLUS

CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101696-82-5 CAPLUS

CN Benzamide, 2,4-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101696-83-6 CAPLUS

CN Benzamide, 2,4-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

- RN 1101696-84-7 CAPLUS
- CN Benzamide, 2,5-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101696-85-8 CAPLUS
- CN Benzamide, 2,5-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-v1)carbonv1]phenv1]- (CA INDEX NAME)

- RN 1101696-86-9 CAPLUS
- CN Benzamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro- (CA INDEX NAME)

- RN 1101696-87-0 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

- RN 1101696-88-1 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

- RN 1101696-89-2 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

- RN 1101696-90-5 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

RN 1101696-91-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1101696-92-7 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl|phenyl|-2-(trifluoromethoxy)- (CA INDEX NAME)

- RN 1101696-93-8 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

- RN 1101696-94-9 CAPLUS
- CN Benzamide, 2,6-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

RN 1101696-95-0 CAPLUS

CN Benzamide, 2,6-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101696-96-1 CAPLUS

CN Benzamide, N-[4-[4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,6-dimethyl- (CA INDEX NAME)

RN 1101696-97-2 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2,6-dimethyl- (CA INDEX NAME)

- RN 1101696-98-3 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101696-99-4 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101697-00-0 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101697-01-1 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-02-2 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-03-3 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-04-4 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro- (CA INDEX NAME)

- RN 1101697-05-5 CAPLUS
- CN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro- (CA INDEX NAME)

- RN 1101697-06-6 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-nitro- (CA INDEX NAME)

- RN 1101697-07-7 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-nitro- (CA INDEX NAME)

- RN 1101697-08-8 CAPLUS
- CN Benzamide, 2-amino-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101697-09-9 CAPLUS

CN Benzamide, 2-amino-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101697-34-0 CAPLUS

CN Benzamide, 2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-4-nitro- (CA INDEX NAME)

RN 1101697-35-1 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2,5-dimethyl- (CA INDEX NAME)

RN 1101697-36-2 CAPLUS

CN Benzamide, 5-amino-2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

RN 1101697-37-3 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-38-4 CAPLUS

CN Benzamide, 5-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-methoxy- (CA INDEX NAME)

RN 1101697-39-5 CAPLUS
CN Benzamide, 2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-5-(methylthio)- (CA INDEX NAME)

RN 1101697-40-8 CAPLUS

RN 1101697-41-9 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]-2-fluoro-4-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-42-0 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)yl)carbonyl]-2-pyridinyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1101697-43-1 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)yl)carbonyl]-2-pyridinyl]-2-nitro- (CA INDEX NAME)

RN 1101697-44-2 CAPLUS

CN Benzamide, N-15-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-fluoro- (CA INDEX NAME)

- RN 1101697-45-3 CAPLUS
- CN Benzamide, 4-amino-2-chloro-N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]- (CA INDEX NAME)

- RN 1101697-46-4 CAPLUS
- CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

1101697-47-5 CAPLUS

Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME) CN

RN

 $1101697-48-6 \quad CAPLUS \\ Benzamide, \ 2, 4-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-dihydropyrazolo[3,4-d]pyrido[3,2-dihydropyrazolo[3,4-d]pyrido[3,2-dihydropyrazolo[3,4-d]pyrido[3,2-dihydropyrazolo[3,4-d]pyrido[3,2-dihydropyrazolo[3,4-d]pyrido[3,2-dihydropyrazolo[3,4-d]pyrido[3,2-dihydropyrazolo[3,4-d]pyrido[3,2-dihydropyrazolo[3,4-d]pyrid$ b]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

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Cl

RN 1101697-49-7 CAPLUS

CN Benzamide, 2,4-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

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RN 1101697-50-0 CAPLUS

CN Benzamide, 2,5-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

10/565,702

RN CN

d]pyrido[3,2-b]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

RN 1101697-52-2 CAPLUS

Benzamide, 5-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-CN b]azepin-6(1H)-y1)carbony1]pheny1]-2-fluoro- (CA INDEX NAME)

10/565,702

RN 1101697-53-3 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 1101697-54-4 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-

6(1H)-y1)carbony1]pheny1]-2-methy1- (CA INDEX NAME)

RN 1101697-55-5 CAPLUS
CN Benzamide, N-[4-](4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101697-56-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

- RN 1101697-57-7 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1101697-58-8 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(lH)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1101697-59-9 CAPLUS
- CN Benzamide, N-[4-](4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

- RN 1101697-60-2 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(dimethylamino)- (CA INDEX NAME)

- RN 1101697-61-3 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(dimethylamino)- (CA INDEX NAME)

- RN 1101697-62-4 CAPLUS
- CN Benzamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1101697-63-5 CAPLUS
- CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101697-64-6 CAPLUS

CN Benzamide, 2,3-dichloro-N-[3-chloro-4-[4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101697-66-8 CAPLUS

CN Benzamide, 2,3,5-trichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

RN 1101697-67-9 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(methylamino)- (CA INDEX NAME)

RN 1101697-68-0 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-

6(1H)-v1)carbonv1|phenv1|-2-(methylamino)- (CA INDEX NAME)

- RN 1101697-69-1 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101697-70-4 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101697-71-5 CAPLUS
- CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)yl)carbonyl]-2-pyridinyl]-2-methyl- (CA INDEX NAME)

RN 1101697-72-6 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-(methylthio)- (CA INDEX NAME)

RN 1101697-83-9 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

1101697-84-0 CAPLUS

CN Benzamide, 2,6-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

 $\begin{array}{lll} 1101697-85-1 & \texttt{CAPLUS} \\ \texttt{Benzamide, 2,6-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-dih$ d]pyrido[3,2-b]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

RN 1101697-86-2 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,6-dimethyl- (CA INDEX NAME)

RN 1101697-87-3 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-

6(1H)-y1)carbony1]pheny1]-2,6-dimethy1- (CA INDEX NAME)

RN 1101697-88-4 CAPLUS
CN Benzamide, N-[4-](4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-y1)(arbonyl)phenyl]-2-(methylthio)- (CA INDEX NAME)

RN 1101697-89-5 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl]carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1101697-90-8 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101697-91-9 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101697-92-0 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

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RN 1101697-93-1 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

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RN 1101697-94-2 CAPLUS

CN Benzamide, 2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro- (CA INDEX NAME)

RN 1101697-95-3 CAPLUS CN Benzamide, 2-chloro-N

Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro- (CA INDEX NAME)

RN 1101697-96-4 CAPLUS

Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-nitro- (CA INDEX NAME)

RN 1101697-97-5 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-nitro- (CA INDEX NAME)

RN 1101697-98-6 CAPLUS

CN Benzamide, 2-amino-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-

6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

RN

1101697-99-7 CAPLUS

CN Benzamide, 2-amino-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101698-00-3 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(dimethylamino)- (CA INDEX NAME)

- RN 1101698-01-4 CAPLUS
- CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(dimethylamino)- (CA INDEX NAME)

RN 1101698-02-5 CAPLUS

CN Benzamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(lH)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

RN 1101698-03-6 CAPLUS

CN Benzamide, 2,3-dichloro-N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101698-04-7 CAPLUS
- Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-CN b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

- RN
- $\label{local-problem} \begin{array}{lll} 1101698-06-9 & CAPLUS \\ Benzamide, 2, 3, -trichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]- & (CA INDEX NAME) \\ \end{array}$ CN

RN 1101698-08-1 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-(methylamino)- (CA INDEX NAME)

RN 1101698-09-2 CAPLUS

Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(methylamino)- (CA INDEX NAME)

RN 1101698-10-5 CAPLUS CN Benzamide, N-(4-)(4.5

Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

RN 1101698-11-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-

6(1H)-y1)carbony1]pheny1]-3-(trifluoromethy1)- (CA INDEX NAME)

RN 1101698-40-1 CAPLUS CN

Benzamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro (CA INDEX NAME)

RN 1101698-41-2 CAPLUS CN Benzamide, 5-amino-2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]- (CA INDEX NAME)

- RN 1101698-42-3 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101698-43-4 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro-6-(trifluoromethyl)- (CA INDEX NAME)

- RN 1101698-44-5 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

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RN 1101698-45-6 CAPLUS

CN Benzamide, 4-amino-2-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]- (CA INDEX NAME)

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NH2

- RN 1200803-49-1 CAPLUS
- CN Benzamide, N=[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-(2-pyridinyl)- (CA INDEX NAME)

RN 1200803-55-9 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-(2-thienyl)- (CA INDEX NAME)

RN 1229795-72-5 CAPLUS
CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1B)-y1)carbony1]-2-pyridiny1]-3-fluoro- (CA INDEX NAME)

RN 1229795-73-6 CAPLUS

CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1229795-75-8 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-5-fluoro-2-methyl- (CA INDEX NAME)

CN

1229795-77-0 CAPLUS RN

INDEX NAME NOT YET ASSIGNED CN

1229795-78-1 CAPLUS RN

CN Benzeneacetamide, 2-chloro-N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-6-fluoro- (CA INDEX NAME)

- RN 1229795-79-2 CAPLUS
- CN Benzamide, N-[3-chloro-5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]-2-methyl- (CA INDEX NAME)

- RN 1229795-80-5 CAPLUS
- CN INDEX NAME NOT YET ASSIGNED

- RN 1229795-81-6 CAPLUS
- CN Benzeneacetamide, 3-chloro-N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro- (CA INDEX NAME)

RN 1229795-82-7 CAPLUS

CN [1,1'-Bipheny1]-2-carboxamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbony1]-2-pyridiny1]- (CA INDEX NAME)

RN 1229795-83-8 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

RN 1229795-84-9 CAPLUS

N Benzeneacetamide, N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-4-fluoro-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1229795-85-0 CAPLUS

CN Benzeneacetamide, 2-chloro-N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]- (CA INDEX NAME)

RN 1229795-86-1 CAPLUS

CN Benzeneacetamide, N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

RN 1229795-87-2 CAPLUS

CN Benzeneacetamide, N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1229795-88-3 CAPLUS

CN Benzeneacetamide, 2,4-dichloro-N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

RN 1229795-89-4 CAPLUS

CN Benzeneacetamide, 2-chloro-N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-5-fluoro- (CA INDEX NAME)

RN 1229795-91-8 CAPLUS

CN Benzeneacetamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-methoxy- (CA INDEX NAME)

RN 1229795-92-9 CAPLUS

CN Benzeneacetamide, 2,3-dichloro-N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbony1]pheny1]- (CA INDEX NAME)

RN 1229795-93-0 CAPLUS

CN Benzeneacetamide, 5-chloro-N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

RN 1229795-94-1 CAPLUS

CN Benzeneacetamide, 5-chloro-N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-fluoro- (CA INDEX NAME)

RN 1229795-95-2 CAPLUS

CN Benzeneacetamide, 5-chloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-fluoro- (CA INDEX NAME)

RN 1229795-96-3 CAPLUS

CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-methoxy- (CA INDEX NAME)

RN 1229795-97-4 CAPLUS

CN Benzamide, 2,6-dichloro-N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1229795-98-5 CAPLUS

CN Benzeneacetamide, N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1229795-99-6 CAPLUS

CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2,4-difluoro- (CA INDEX NAME)

RN 1229796-00-2 CAPLUS

CN Benzeneacetamide, N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-

6(1H)-v1)carbonv1|phenv1|-2-(methv1thio)- (CA INDEX NAME)

- RN 1229796-01-3 CAPLUS
- CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2,5-dimethoxy- (CA INDEX NAME)

- RN 1229796-02-4 CAPLUS
- CN Benzamide, 2-chloro-N-[3-chloro-5-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]-6-fluoro- (CA INDEX NAME)

- RN 1229796-04-6 CAPLUS
- CN Benzeneacetamide, N=[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-methyl- (CA INDEX NAME)

RN 1229796-05-7 CAPLUS

CN Benzeneacetamide, 2,6-dichloro-N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\$$

RN 1229796-06-8 CAPLUS

CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-3-(trifluoromethyl)- (CA INDEX NAME)

RN 1229796-08-0 CAPLUS

CN Benzamide, N-[5-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-y1)carbonyl]-2-pyridinyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1229796-09-1 CAPLUS

CN Benzeneacetamide, N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 1229796-12-6 CAPLUS

CN Benzeneacetamide, N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2,5-dimethyl- (CA INDEX NAME)

- RN 1229796-13-7 CAPLUS
- CN Benzeneacetamide, N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2,5-dimethoxy- (CA INDEX NAME)

- RN 1229796-14-8 CAPLUS
- CN Benzeneacetamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]-2-pyridinyl]-2-(methylthio)- (CA INDEX NAME)

- RN 1229796-15-9 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

RN 1229796-16-0 CAPLUS

CN Benzeneacetamide, N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-y1)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

RN 1229796-17-1 CAPLUS

CN Benzeneacetamide, N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1229796-18-2 CAPLUS

CN Benzeneacetamide, N-[3-[(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-

6(1H)-v1)carbonv1|phenv1|-2-(trifluoromethv1)- (CA INDEX NAME)

IT 180340-49-2P

RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PRBF (Preparation); USES (Uses)

(tricyclic azepine oxytocin and vasopressin receptor antagonists)

- RN 180340-49-2 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[5,4-d]thieno[3,2-b]azepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

IT 180339-77-9 180340-72-1,

6-(4-Nitrobenzoy1)-1,4,5,6-tetrahydropyrazolo[3,4-b]thieno[3,2-b]azepine RL: RCT (Reactant); RACT (Reactant or reagent)

- (tricyclic azepine oxytocin and vasopressin receptor antagonists)
- RN 180339-77-9 CAPLUS
- CN Methanone, (2-chloro-4-nitrophenyl) (4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)- (CA INDEX NAME)

RN 180340-72-1 CAPLUS

CN Methanone, (4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)(4-nitrophenyl)- (CA INDEX NAME)

IT 180339-70-2P 180339-71-3P 180339-78-0P 180339-94-0P 180339-95-1P 180339-98-4P

 $180340-73-2P, \ 6-(4-Aminobenzoyl)-1,4,5,6-tetra$ hydropyrazolo[3,4-d]thieno[3,2-b]azepine

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(tricyclic azepine oxytocin and vasopressin receptor antagonists)
RN 180339-70-2 CAPLUS

CN Methanone, (2-chloro-4-nitrophenyl)(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)- (CA INDEX NAME)

RN 180339-71-3 CAPLUS

CN Methanone, (4-amino-2-chlorophenyl)(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)- (CA INDEX NAME)

RN 180339-78-0 CAPLUS

CN Methanone, (4-amino-2-chlorophenyl) (4,5-dihydropyrazolo[3,4-d]pyrido[3,2-b]azepin-6(1H)-yl)- (CA INDEX NAME)

RN 180339-94-0 CAPLUS

CN Methanone, (4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-yl)(4-nitrophenyl)- (CA INDEX NAME)

RN 180339-95-1 CAPLUS

CN Methanone, (4-aminopheny1)(4,5-dihydropyrazolo[3,4-d]pyrido[2,3-b]azepin-6(1H)-v1)- (CA INDEX NAME)

RN 180339-98-4 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydro-6H-isoxazolo[5,4-d]thieno[3,2-b]azepin-6-yl)- (CA INDEX NAME)

RN 180340-73-2 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydropyrazolo[3,4-d]thieno[3,2-b]azepin-6(1H)-yl)- (CA INDEX NAME)

7

17

OS.CITING REF COUNT:

THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

REFERENCE COUNT:

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 69 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1996:323956 CAPLUS DOCUMENT NUMBER: 125:86517

ORIGINAL REFERENCE NO.: 125:16313a,16316a

TITLE: Tricyclic benzazepine oxytocin and vasopressin

antagonists INVENTOR(S):

Albright, Jav D.; Sum, Fuk Wah; Du, Xuemei

PATENT ASSIGNEE(S): American Cvanamid Company, USA SOURCE: U.S., 95 pp., Cont.-in-part of U.S. Ser. No. 100,003,

abandoned. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 10

PATENT NO.			KIND DATE			AF	PLICATION NO.	DATE		
	5512563			A		19960430	US	1994-254823		19940613
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	5693635			A .		19971202	110	1996-662546		19960613
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	5843952			A A		19981201	IIS	1997-889858		19970708
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PRIORITY APPLN. INFO.:			US	1993-100003	B2	19930729
			US	1994-254823	A2	19940613
			NZ	1994-264116	A1	19940728
			US	1996-637058	A3	19960424
			US	1996-639014	A2	19960424
			US	1996-637908	A3	19960425
			US	1996-663400	B1	19960613

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 125:86517

AΒ This invention relates to title compds. I wherein: Y = e.g., (CH2)n, O, S wherein n is an integer from 0-2; A-B is (CH2)mNR3 or NR3(CH2)m , wherein m is an integer from 1-2, provided that when Y is (CH2)n and n=2, m may also be zero and when n is zero, m may also be three, provided also that when Y is (CH2)n and n is 2, m may not also be two; R1 = e.g., H, halo, OH; R2 = e.g., H, halo, OH; R3 is the moiety COAr where Ar is selected from, e.g., substituted Ph, (un)substituted 5-indolyl; the aromatic Z ring represents, e.g., fused (un)substituted Ph, 5- or 6-membered atom. heterocycle, that exhibit antagonist activity at V1 and/or V2 receptors and exhibit in vivo vasopressin antagonist activity, methods for using such compds. in treating diseases characterized by excess renal reabsorption of water, and processes for preparing such compds. I are also antagonists of the peptide hormone oxytocin and are useful in the control of premature birth. Thus, e.g., acylation of 6,11-dihydro-5H-dibenz[b,e]azepine (preparation given) with 4-[(2-methylbenzoyl)amino]benzoyl chloride (preparation given) afforded N-[4-[(6,11-dihydro-5H-dibenz[b,e]azepin-5-y1)carbonyl]phenyl]-2methylbenzamide (II) which exhibited binding to rat hepatic V1 receptors and rat kidney medullary V2 receptors with IC50 = 0.15 and 0.068 µM, resp., and oxytocin receptor binding with IC50 = 2.9 μ M.

T T	1033400-27-2	1033400-38-0	1099466-39-7
	1099466-60-0	1099471-79-0	1099471-80-3
	1099471-81-4	1099471-82-5	1099471-83-6
	1099471-84-7	1099471-85-8	1099471-86-9
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	1099471-90-5	1099471-91-6	1099471-92-7
	1099471-93-8	1101631-21-3	1101631-22-4

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1101631-23-5 1101631-24-6 1101631-25-7 1101631-26-8 1101631-28-0 1101631-39-4 1101631-31-5 1101631-32-6 1101631-35-9 1146445-27-3 RE: PRPH (Prophetic)
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(Tricyclic benzazepine oxytocin and vasopressin antagonists)

RN 1099466-57-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6vl)carbonyl]-3-methoxyphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1099466-58-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]-3-methoxyphenyl]-2-methyl- (CA INDEX NAME)

 $\label{eq:continuous} \begin{tabular}{ll} 1099466-59-7 & CAPLUS \\ Benzamide, & 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yllcarbonyl]-3-methoxyphenyl]-4-fluoro- (CA INDEX NAME) \\ \end{tabular}$ CN

PAGE 1-A

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RN 1099466-60-0 CAPLUS

CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methoxyphenyl]- (CA INDEX NAME)

RN 1099471-79-0 CAPLUS

CN Benzamide, 4-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

Cl

RN 1099471-80-3 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1099471-81-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)

- RN 1099471-82-5 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]phenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

RN 1099471-83-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-84-7 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-(methylthio)- (CA INDEX NAME)

RN 1099471-85-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1099471-86-9 CAPLUS
CN Benzamide, N-[4-](4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099471-87-0 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

- RN 1099471-88-1 CAPLUS
- CN Benzamide, 2-chloro-N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

RN 1099471-89-2 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-90-5 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-3-(trifluoromethyl)- (CA INDEX NAME)

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RN 1099471-91-6 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

RN 1099471-92-7 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-5-(trifluoromethyl)- (CA INDEX NAME)

RN 1099471-93-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-fluoro-6-(trifluoromethyl)- (CA INDEX NAME)

RN 1101631-21-3 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-22-4 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2,3-dimethyl- (CA INDEX NAME)

RN 1101631-23-5 CAPLUS

Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 1101631-24-6 CAPLUS

CN Benzamide, N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-25-7 CAPLUS

EN Benzamide, 2-chloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-4-fluoro- (CA INDEX NAME)

RN 1101631-26-8 CAPLUS
CN Benzamide, 2,3-dichloro-N-[3-chloro-4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

RN 1101631-28-0 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]-3-methylphenyl]-2-methyl- (CA INDEX NAME)

- RN 1101631-29-1 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbony1]-3-methylpheny1]-2,3-dimethyl- (CA INDEX NAME)

RN 1101631-30-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-3-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-31-5 CAPLUS

Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)carbonyl]-3-methylphenyl]-5-fluoro-2-methyl- (CA INDEX NAME)

RN 1101631-32-6 CAPLUS
CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-4-fluoro-2-methyl- (CA INDEX NAME)

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- RN 1101631-35-9 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

- RN 1146445-27-3 CAPLUS
- CN Benzenecarbothioamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]-3-methylphenyl]-2-methyl- (CA INDEX NAME)

- IT 169879-79-2P
 - RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
- (tricyclic benzazepine oxytocin and vasopressin antagonists)
- RN 169879-79-2 CAPLUS
- CN Benzamide, N-[4-[4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

IT 169878-98-2P 169878-99-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(tricyclic benzazepine oxytocin and vasopressin antagonists)

RN 169878-98-2 CAPLUS

CN Methanone, (4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)(4-nitrophenyl)- (CA INDEX NAME)

RN 169878-99-3 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)- (CA INDEX NAME)

OS.CITING REF COUNT:

17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)

REFERENCE COUNT:

B THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L28 ANSWER 70 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1995:898877 CAPLUS DOCUMENT NUMBER: 123:313792

ORIGINAL REFERENCE NO.: 123:56251a,56254a

TITLE: Preparation of tricyclic benzazepine vasopressin

antagonists

INVENTOR(S): Albright, Jay D.; Reich, Marvin F.; Sum, Fuk-Wah; Du, Xuemei

American Cyanamid Co., USA PATENT ASSIGNEE(S):

SOURCE: Can. Pat. Appl., 288 pp. CODEN: CPXXEB

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 10

PATENT INFORMATION:				
PATENT NO.		DATE	APPLICATION NO.	DATE
CA 2128955	A1	19950130	CA 1994-2128955	19940727
CA 2128955 CA 2128955 EP 640592 EP 640592	A1 B1	19950301	EP 1994-111040	19940715
R: AT, BE, CH	. DE. DK	. ES. FR. 0	GB. GR. IE. IT. LI. LU.	NL. PT. SE
AT 175198	T	19990115	AT 1994-111040 ES 1994-111040 SK 1994-880 IL 1994-110436	19940715
ES 2125377	T3	19990301	ES 1994-111040	19940715
SK 281194	B6	20010118	SK 1994-880	19940720
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CN 1064354	С	20010411		
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PRIORITY APPLN. INFO.:			US 1993-100003	A 19930729
OWNED COURSE (C)		100 01000	NZ 1994-264116	AI 19940728

OTHER SOURCE(S): MARPAT 123:313792

GI

- AB The title compds. [I; AB = (CH2)mNR3, (un)substituted R3M(CH2)m; R3 = (un)substituted arylcarbonyl, (un)substituted 5-indolylcarbonyl, etc.; m = 1, 2, R1 = H, halogen, OH, alkylthio, SH, acyl, etc.; R2 = H, C1, F, Br, I, alkyl, alkoxy; Z = (un)substituted fused Ph, (un)substituted 5-member heteroarom. ring, etc.], useful as vasopressin antagonists for diseases requiring diuretic application, are prepared Thus, dibenzazepine II was prepared and demonstrated a ICSO for human V2 receptors of 0.86 µ%.
- IT 169879-79-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
- (preparation of tricyclic benzazepine vasopressin antagonists) RN 169879-79-2 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6vl)carbonvl)phenvl]-2-methvl- (CA INDEX NAME)

- IT 169878-98-2P 169878-99-3P
- RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
- (preparation of tricyclic benzazepine vasopressin antagonists from) ${\tt RN} 169878 98 2 {\tt CAPLUS}$

CN Methanone, (4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-y1)(4-nitrophenyl)- (CA INDEX NAME)

RN 169878-99-3 CAPLUS

CN Methanone, (4-aminophenyl)(4,5-dihydro-6H-isoxazolo[4,5-d][1]benzazepin-6-yl)- (CA INDEX NAME)

OS.CITING REF COUNT:

12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

L28 ANSWER 71 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1995:835467 CAPLUS DOCUMENT NUMBER: 123:256545

ORIGINAL REFERENCE NO.: 123:45886h, 45887a

TITLE: Preparation of fused benzazepine derivs. as arginine

vasopressin antagonists

INVENTOR(S): Tanaka, Akihiro; Koshio, Hirovuki; Taniquchi, Nobuaki; Matsuhisa, Akira; Sakamoto, Ken-ichiro; Yamazaki,

Atsuki; Yatsu, Takeyuki

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 150 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.				KIN	KIND DATE			APPLICATION NO.						DATE		
WO 9503305							WO 1994-JP1183									
1	W: P	M, A	J, BB	, BG,	BR,	BY,	CA,	CN,	CZ	, FI,	GE,	HU,	JP,	KE,	KG,	KR,
	F	Z, L	, LT	, LV,	MD,	MG,	MN,	MW,	NO	, NZ,	PL,	PT,	RO,	RU,	SD,	SI,
	5	K, T	J, TT	, UA,	US,	UZ,	VN									
1										, IE,						SE,
	E	F, B	, CF	, CG,	CI,	CM,	GA,	GN,	ML	, MR,	NE,	SN,	TD,	TG		
CA 2:	16767	3		A1		1995	0202		CA	1994-	2167	673		1	9940	719
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AU 9	47195	7		A		1995	0220		ΑU	1994-	7195	7		1	9940	719
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EP 70	09386			A1		1996	0501		EP	1994-	9211	17		1:	9940	719
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CN 1:	12750	8		A		1996	0724		CN	1994- 1996- 1995-	1928	31		1	9940	719
CN 10	04021	.0		C		1998	1014									
HU 7	4582			A2		1997	0128		HU	1996-	102			1	9940	719
JP 2	74452	.7		B2		1998	0428		JΡ	1995-	5050	56		1:	9940	719
RU 21	12912	:3		C1		1999	0420		RU	1996-	1053	90		11	9940	719
PL 1	77738			B1		2000	0131		PL	1994-	3126	54		1	9940	719
EP 10	09792	0		A1		2001	0509		EΡ	1994- 2000-	2047	04		1	9940	719
EP 10	09792	0		B1		2004	0922									
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AT 23	39726			T		2003	0515		AΤ	1994-	9211	17		1	9940	719
ES 2:	19841	.8		Т3		2004	0201		ES	1994-	9211	17		1	9940	719
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ES 22	22840	5		Т3		2005	0416		ES	2000-	2047	04		1	9940	719
FI 96	60026	0		A		1996	0119		FΙ	1996-	260			1	9960	119
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NO 96	60023	1		A		1996	0321		NO	1996-	231			11	9960	119
US 5	72360	16		A		1998	0303		US	1996-	5866	86		1	9960	119
AU 9°	73990	16		A		1997	1218		ΑU	1997-	3990	6		1	9971	002
AU 9° US 58 RIORITY A	85656	4		A		1999	0105		US	1997-	9722	71		1	9971	118
RIORITY A	APPLN	. IN	0.:						JΡ	1993-	1804	35	,	A 1	9930	721
									CA	1994-	2167	673	- 1	A3 1	9940	719
									EΡ	1994-	9211	17	- 1	A3 1	9940	719
									WO	1993- 1994- 1994- 1994-	JP11	83	1	W 1	9940	719

US 1996-586686 A3 19960119

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 123:256545

GI For diagram(s), see printed CA Issue.

Bitle compds. I (B = a nitrogenous aromatic 5-membered ring that may be substituted, has at least one nitrogen atom and may further have one oxygen or sulfur atom; RI, R2 = hydrogen, halogen, lower alkyl, amino; A = a single bond or NHCO(CR3R4)n; n = 0, 1, 2, 3; R3, R4 = hydrogen, lower alkyl; R3R4 may be combined together to form a C2-C7 alkylene; C = optionally substituted benzene ring) and their pharmaceutically acceptable salts, useful as arginine vasopressin antagonists, were prepared Thus, refluxing 2-phenyl-4'-[(5-oxo-2,3,4,5-tetrahydro-1H-1-benzazepin-1-yl)carbonyl]bezanliide with CuBr2 in CHCl3 and EtOAc for 3 h followed by refluxing with thiourea in EtOH for 3 h gave
4'-[(2-maino-5,6-dihydro-4H-thiazolo[5,4-d][]benzazepin-6-yl]carbonyl]-2-phenylbenzanliide hydrobromide (II). II showed pKi values of 8.33 and

4 - [(2-amino-3,0-dinydro-4H-thiazolo]5,4-d][]]penzazepin-0-yi]carbonyi]-z phenylbenzanliide hydrobromide (IJ). II showed pKi values of 8.33 and 7.21 in VI and V2 receptor binding assay using [H3]-arginine vasopressin for rate liver membrane and rabbit kidney medullary substance membrane, resp. Formulations containing I were diven.

IT 168626-93-5P 168626-97-9P 168626-98-0P 168626-99-1P 168627-00-7P 168627-01-8P 168627-15-4P

RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of fused benzazepine derivs. as arginine vasopressin antagonists)

RN 168626-93-5 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methyl-6H-oxazolo[4,5-d][1]benzazepin-6-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 1-A

- RN 168626-97-9 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(2-ethyl-4,5-dihydroimidazo[4,5-d][])benzazepin-6(1H)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

Εt

PAGE 1-A

● HCl

RN 168626-98-0 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-propylimidazo[4,5-d][]]benzazepin-6(1H)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

● HCl

RN 168626-99-1 CAPLUS

HCl

RN 168627-00-7 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(2-cyclopropyl-4,5-dihydroimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

● HCl

RN 168627-01-8 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-methyl-, hydrochloride (1:1) (CA INDEX NAME)

● HCl

- RN 168627-04-1 CAPLUS
- CN Benzamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-(1-methylethoxy)-, hydrochloride (1:1) (CA INDEX NAME)

HC1

- RN 168627-14-3 CAPLUS
- 10027.1475 CAFIOLOGY
 10.171-Siphenyl]-2-carboxamide, N-[4-[[2-(4-aminobutyl)-4,5dihydroimidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]-,
 hydrochloride (1:2) (CA INDEX NAME)

● 2 HC1

RN 168627-15-4 CAPLUS

CN Cyclopentanecarboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][]]benzazepin-6(lH)-yl)carbonyl]phenyl]-1-phenyl-, hydrochloride (1:1) (CA INDEX NAME)

IT 168626-66-2P 168626-67-3P 168626-68-4P 168626-71-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of fused benzazepine derivs. as arginine vasopressin antagonists)

RN 168626-66-2 CAPLUS

[1,1'-Biphenyl]-2-carboxamide, N-[4-[[2-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)ethyl]-4,5-dihydroimidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

CN

PAGE 2-A

RN 168626-67-3 CAPLUS

[1,1'-Biphenyl]-2-carboxamide, N-[4-[[2-[3-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl]propyl]-4,5-dihydroimidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl[phenyl]- (CA INDEX NAME)

CN

PAGE 2-A

RN 168626-68-4 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[[2-[4-(1,3-dihydro-1,3-dioxo-2H-ioindol-2-y1]butyl]-4,5-dihydroimidazo[4,5-d][1]benzazepin-6(1H)-yl]carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

RN 168626-71-9 CAPLUS

CN Methanone, (4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)(4-nitrophenyl)- (CA INDEX NAME)

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168626-95-7P
                     168626-96-8P
                                       168627-02-9P
IT
     168627-03-0P
                                       168627-06-3P
                      168627-05-2P
                                       168627-09-6P
     168627-07-4P
                      168627-08-5P
     168627-10-9P
                      168627-11-0P
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     168627-27-8P
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                                       168627-29-0P
     168627-30-3P
                      168627-31-4P
     RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
     study); PREP (Preparation); USES (Uses)
        (preparation of fused benzazepine derivs. as arginine vasopressin
        antagonists)
RN
    168626-95-7 CAPLUS
CN
    [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methyl-6H-oxazolo[4,5-
```

d][1]benzazepin-6-yl)carbonyl]phenyl]-4'-methyl- (CA INDEX NAME)

Page 1092

PAGE 2-A

RN 168626-96-8 CAPLUS

 $\label{lem:condition} $$[1,1'-Bipheny1]-2-carboxamide, N-[4-[4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-y1)carbony1]pheny1]-4'-methyl-, hydrochloride (1:1)$

(CA INDEX NAME)

CN

PAGE 2-A

HC1

RN 168627-02-9 CAPLUS
CN Benzamide, N-[4-1(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)yl)carbonyl]phenyl1-2-methoxy-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A



RN 168627-03-0 CAPLUS
CN Benzamide, N-[4-1(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)yl)carbonyl]phenyl]-2-ethoxy-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A



- RN
- 168627-05-2 CAPLUS
 Benzamide, N-[4-[(2-cyclopropyl-4,5-dihydroimidazo[4,5-d][1]benzazepin-6(1H)-y1)carbonylphenyl]-2-(1-methylethoxy)-, hydrochloride (1:1) (CA CN INDEX NAME)

PAGE 2-A

RN 168627-06-3 CAPLUS
CN Benzamide, N-[4-1(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)yl)carbonyl]phenyl]-2-fluoro-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A



- RN
- CN NAME)

PAGE 2-A

RN 168627-08-5 CAPLUS
CN Benzeneacetamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A



RN 168627-09-6 CAPLUS
CN Benzeneacetamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyljbenylj-2-methyl-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A



RN

168627-10-9 CAPLUS Methanone, (4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-y1)(2'-methoxy[1,1'-biphenyl]-4-y1)-, hydrochloride (1:1) (CA INDEX NAME) CN

RN 168627-11-0 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-(2-ethyl-1H-imidazol-1-yl)-, hydrochloride (1:2) (CA INDEX NAME)

9

●2 HC1

RN 168627-12-1 CAPLUS

●2 HC1

RN 168627-13-2 CAPLUS

●2 HC1

- RN 168627-16-5 CAPLUS
- CN Cyclohexanecarboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][]]benzazepin-6(lH)-yl)carbonyl]phenyl]-1-phenyl-, hydrochloride (1:1) (CA INDEX NAME)

HC1

HN-

RN 168627-26-7 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

Ме

PAGE 1-A

PAGE 2-A

RN 168627-27-8 CAPLUS

CN Benzamide, N-[4-[(2-cyclopropy1-4,5-dihydroimidazo[4,5-d][1]benzazepin-

6(1H)-y1)carbony1]pheny1]-2-(1-methy1ethoxy)- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 168627-28-9 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)yl)carbonyl]phenyl]-2-(1-methylethyl)- (CA INDEX NAME)

PAGE 2-A

RN 168627-29-0 CAPLUS

Benzeneacetamide, $N=\{4-[(4,5-dihydro-2-methylimidazo\{4,5-d\}[1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-methoxy- (CA INDEX NAME)$

CN

PAGE 2-A

OMe

RN 168627-30-3 CAPLUS

CN Benzeneacetamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-2-methyl- (CA INDEX NAME)

PAGE 2-A

RN 168627-31-4 CAPLUS

CN Benzamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)yl)carbonyl]phenyl]-2-(2-ethyl-1H-imidazol-1-yl)- (CA INDEX NAME)

PAGE 2-A

d

OS.CITING REF COUNT:

- 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (24 CITINGS)
- REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/565,702

L28 ANSWER 72 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1995:419668 CAPLUS DOCUMENT NUMBER:

122:265125

ORIGINAL REFERENCE NO.: 122:48400h,48401a

Synthesis of biliverdins with stable extended TITLE:

conformations. Part II

AUTHOR(S): Bari, Sara E.; Iturraspe, Jose; Frydman, Benjamin

CORPORATE SOURCE: Fac. Farm. Bioquim., Univ. Buenos Aires, Buenos Aires,

1113, Argent.

SOURCE: Tetrahedron (1995), 51(8), 2255-66

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 122:265125

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

- The synthesis of two hexacyclic, I and II, and one heptacyclic biliverdin, III, with extended conformations was achieved using base catalyzed intramol. substitution reactions of 2-chloroethyl biliverdins. The 2-chloroethyl residues were located at selected β -pyrrole positions as to enable them to react with proximal basic nitrogens at the adjacent pyrrole rings. Seven membered rings were thus formed which distorted either two or the three exocyclic double bonds at the biliverdin meso-bridges away from their usual Z-syn configuration. The hexacyclic bilverdin I is isomorphous with the chromophores of C-phycocyanin, biliverdin II is an isomer of isophorcabilin, and the heptacyclic biliverdin III has the fullest extended conformation that the biliverdin backbone can achieve.
- 118631-58-6P 130877-88-2P 162661-71-4P RL: SPN (Synthetic preparation); PREP (Preparation) (synthesis of hexacyclic and heptacyclic biliverdins)
- RN 118631-58-6 CAPLUS
- Dipyrrolo[1,2-a:2',3'-d]azepine-9-propanoic acid, 2-[[4,5-dihydro-9-(3-methoxy-3-oxopropyl]-3,8-dimethyl-7-oxodipyrrolo[1,2a:2',3'-d]azepin-2(7H)-ylidene]methyl]-1,4,5,7-tetrahydro-3,8-dimethyl-7oxo-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-B

RN 130877-88-2 CAPLUS

Pyrrolo[1,2-a]pyrrolo[1'''',2'''':1''',7''']azepino[4''',5''':4'',5'']pyrr CN olo[1',2':1',7']azepino[4',5':4,5]pyrrolo[2,3-d]azepino[2,12-djropanoic acid, 3,5,6,7,8,13,15,16-octahydro-1,11,17-trimethyl-3,13-dioxo-, 2,12-dimethyl ester (CA INDEX NAME)

PAGE 1-A Me Me

PAGE 1-B

- OMe

RN 162661-71-4 CAPLUS

CN 10H-Dipyrrolo[1',2'-a':2,3-d]pyrrolo[1,5-a:2,3-d']bisazepine-9-propanoic acid, 2-[[1,5-dihydro-4-(3-methoxy-3-oxopropyl)-3-methyl-5-oxo-2H-pyrrol-2ylidene]methyl]-4,5,12,13-tetrahydro-3,8,14-trimethyl-10-oxo-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-B

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L28 ANSWER 73 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1995:419667 CAPLUS DOCUMENT NUMBER: 122:290543

ORIGINAL REFERENCE NO.: 122:52971a,52974a

Synthesis of biliverdins with stable extended TITLE:

conformations. Part I

AUTHOR(S): Iturraspe, Jose; Bari, Sara E.; Frydman, Benjamin CORPORATE SOURCE: Fac. Farm. Bioquimica, Univ. Buenos Aires, Buenos

Aires, 1113, Argent.

SOURCE: Tetrahedron (1995), 51(8), 2243-54

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 122:290543

Biliverdins with extended conformations stabilized by intramol. Et bridges were obtained by base treatment of helical biliverdins with 2-chloroethyl side chains. Thus, neobiliverdin ICB was obtained by reaction of 13,18-di(2-chloroethyl)-biliverdin with DBH. During the reaction, the 2-chloroethvl-C(13) residue underwent an intramol. substitution reaction with N-24 while the 2-chloroethyl-C(18) residue underwent an elimination reaction to form a vinyl residue. This reaction scheme was unambiguously demonstrated by performing the synthesis of [15N-24]-dihydro-neobiliverdin $IX\beta$ and of [15N-23]-dihydrophorcabilin. The method was then applied to the synthesis of neobiliverdin $IX\delta$, a natural product isolated from the ovaries of the sea snake Turbo cornutus. It was concluded that when the 2-chloroethyl side chains are at C(3) (or the equivalent C(17)) and C(2) (or the equivalent C(18)) positions of the biliverdin, elimination reactions lead to vinyl residues in basic media; at any other of the

β-pyrrole sites, treatment with base leads to the formation of seven-membered rings by intramol. substitution reactions.

118631-57-5P 163014-57-1P

RL: SPN (Synthetic preparation); PREP (Preparation) (synthesis of pentacyclic biliverdins)

RN 118631-57-5 CAPLUS

CN

1H-Pyrrole-3-propanoic acid, 2-[[2-[(8-ethenyl-1,4,5,7-tetrahydro-3,9dimethyl-7-oxodipyrrolo[1,2-a:2',3'-d]azepin-2-yl)methylene]-4-(3-methoxy-3-oxopropy1)-3-methy1-2H-pyrrol-5-y1]methylene]-2,5-dihydro-4-methyl-5-oxo-, methyl ester, (Z,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 163014-57-1 CAPLUS CN 1H-Pyrrole-3-propanoic acid, 2-[[2-[(8-ethyl-1,4,5,7-tetrahydro-3,9-dimethyl-7-oxodipyrrolo[1,2-a:2',3'-d]azepin-2-yl-6-15N)methylene]-4-(3-methoxy-3-oxopropyl)-3-methyl-2H-pyrrol-5-yl]methylene]-2,5-dihydro-4-methyl-5-oxo-, methyl ester, (%, %)- (%CI) (CA INDEX NAME)

Double bond geometry as shown.

OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L28 ANSWER 74 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1994:605360 CAPLUS DOCUMENT NUMBER: 121:205360

ORIGINAL REFERENCE NO.: 121:37397a,37400a

TITLE: Preparation of antiallergic triazolo(pyrrolo, thieno or furano) azepine derivatives

INVENTOR(S):

Janssens, Frans Eduard; Lacrampe, Jean Fernand Armand; Pilatte, Isabelle Noelle Consta

PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.

SOURCE: PCT Int. Appl., 42 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

		APPLICATION NO.	
		WO 1993-EP3322	
		HU, JP, KP, KR, LK, LV,	
	RO, RU, SD, SK,		110, 1111, 1111,
		GB, GR, IE, IT, LU, MC,	NI. PT. SE.
		GN, ML, MR, NE, SN, TD,	
CA 2150804	A1 19940623	CA 1993-2150804	19931125
CA 2150804	C 20061010	CA 1993-2150804	
AU 9456280	A 19940704	AU 1994-56280	19931125
AU 676703	B2 19970320		
EP 675889	A1 19951011	EP 1994-901888	19931125
EP 675889			
R: AT, BE, CH,	DE, DK, ES, FR,	GB, GR, IE, IT, LI, LU,	NL, PT, SE
HU 71808	A2 19960228	HU 1995-1619 JP 1994-513722	19931125
HU 223465	B1 20040728		
JP 08503954	T 19960430	JP 1994-513722	19931125
JP 3503065	B2 20040302		
RU 2127737	C1 19990320	RU 1995-115515	19931125
PL 176528	B1 19990630	PL 1993-309255	19931125
AT 194350	T 20000715	AT 1994-901888	
ES 2149861	T3 20001116	ES 1994-901888	19931125
PT 675889	E 20001229	PT 1994-901888	19931125
US 5595988	A 19970121	US 1995-433387	19950508
FI 9502724	A 19950602	US 1995-433387 FI 1995-2724 NO 1995-2200	19950602
NO 9502200	A 19950803	NO 1995-2200	19950602
NO 311619	B1 20011217		
	T3 20001229	GR 2000-402184	20000928
RIORITY APPLN. INFO.:		EP 1992-203777	A 19921204
		EP 1992-203777 EP 1994-901888 WO 1993-EP3322	A 19931125
		WO 1993-EP3322	W 19931125

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 121:205360

GI

- AB Title compde. I (B-G = XCRICH, CH:CR2X wherein X = 0, S or R3N wherein R3 =H, Cl-6 alkyl, Cl-4 alkyl, Carbonyl, R1, R2 = H, Cl-4 alkyl, halo, (substituted)ethenyl, etc.; BD = CR4:N, N:CR5 wherein R4 H, Cl-4 alkyl, scub: L = H, (substituted)ethenyl, HO-Cl-4 alkyl, HCO, HO2C, R5 = H, Ph, pyridinyl, etc.; L = H, (substituted)Cl-6 alkyl, (aryl)C3-6 alkenyl, Alk-Y-Het, Alk-NHCO-Het, Alk-Het wherein Alk = Cl-4 alkanediyl, Y = 0, S, NH, Het et (substituted)heterocyclyl) or a salt or stereomer thereof, are prepared (l-Methyl-4-piperidinyl)[l-[2-(l-methyl-1H-pyrrol-2-yl)lethyl]-1H-1,2,4-triazol-5-yl]methanone (preparation given) was added to MeSO3H at 0° followed by NaOH to give after workup II. Pharmaceutical formulations comprising I are given.
- IT 1236831-63-2 RL: PRPH (Prophetic)
 - (Preparation of antiallergic triazolo(pyrrolo, thieno or furano)azepine derivatives)
- RN 1236831-63-2 CAPLUS
- CN INDEX NAME NOT YET ASSIGNED



- IT 158144-23-IP 158144-25-3P 158144-26-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
- (preparation and reaction of, in preparation of antiallergy agents)
- RN 158144-23-1 CAPLUS
- CN 10H-Thieno[3,2-d]-1,2,4-triazolo[4,3-a]azepine (CA INDEX NAME)

RN 158144-25-3 CAPLUS

CN 10H-Thieno[3,2-d][1,2,4]triazolo[1,5-a]azepin-10-one (CA INDEX NAME)

RN 158144-26-4 CAPLUS

CN 10H-Thieno[3,2-d][1,2,4]triazolo[1,5-a]azepin-10-ol, 10-(1-methyl-4-piperidinyl)- (CA INDEX NAME)

IT 158143-86-3P 158143-89-6P 158144-02-6P 158144-10-6P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as antiallergy agent)

RN 158143-86-3 CAPLUS

CN 10H-Thieno[3,2-d]-1,2,4-triazolo[4,3-a]azepine, 10-(1-methyl-4-piperidinylidene)- (CA INDEX NAME)

RN 158143-89-6 CAPLUS

CN Pyrrolo[3,2-d][1,2,4]triazolo[1,5-a]azepine,
 7,10-dihydro-10-[1-[2-(4-methoxyphenyl)ethyl]-4-piperidinyl]-7-methyl(CA INDEX NAME)

RN 158144-02-6 CAPLUS

CN 10H-Furo[3,2-d][1,2,4]triazolo[1,5-a]azepine, 8-methyl-10-(1-methyl-4-piperidinyl)- (CA INDEX NAME)

RN 158144-10-6 CAPLUS

CN 1-Piperidinepropanoic acid, 4-(10H-thieno[3,2-d]-1,2,4-triazolo[4,3-a]azepin-10-ylidene)-, methyl ester (CA INDEX NAME)

$$\begin{array}{c|c} \mathbf{S} & \mathbf{N} & \mathbf{N} \\ \mathbf{N} & \mathbf{N} \\ \mathbf{C}\mathbf{H}_2 - \mathbf{C}\mathbf{H}_2 - \mathbf{C} - \mathbf{O}\mathbf{M}\mathbf{e} \\ \mathbf{O} \end{array}$$

OS.CITING REF COUNT:

THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD

(5 CITINGS)
REFERENCE COUNT: 2 THERE ARE 2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 75 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1994:244848 CAPLUS 120:244848 DOCUMENT NUMBER:

ORIGINAL REFERENCE NO.: 120:43401a,43404a

TITLE:

Thiopheno[3,2][1]benzazepine, benzo[3,4]cyclohepta[2,1-b]thiophenes,

thiazolo[5,4-d][1]benzazepine and

benzo[3,4]cvclohepta[2,1-d]thiazoles

AUTHOR(S): Peesapati, V.; Lingaiah, N.

Dep. Chem., Osmania Univ., Hyderabad, 500 007, India CORPORATE SOURCE:

SOURCE: Organic Preparations and Procedures International

(1993), 25(5), 602-6 CODEN: OPPIAK; ISSN: 0030-4948

DOCUMENT TYPE: Journal

LANGUAGE . English

OTHER SOURCE(S): CASREACT 120:244848

- AB Cyclocondensation of 2-benzazepinecarboxaldehydes I (R = tosyl, H; R1 = H, MeO; R2 = H, C1, OMe) gave the thiopheno[3,2-d][1]benzazepines II (same R, R1; R3 = H, Et, etc.) in good vield. The thiazolo[5,4-d]benzazepines III (same R1, R2) were also prepared
- 153894-28-1P 153894-29-2P 153894-30-5P 153894-33-8P 153894-34-9P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
- RN 153894-28-1 CAPLUS
- 4H-Thieno[3,2-d][1]benzazepine-2-carboxvlic acid, 5,6-dihydro-6-[(4-methylphenyl)sulfonyl]-, ethyl ester (CA INDEX NAME)

153894-29-2 CAPLUS 4H-Thieno[3,2-d][1]benzazepine-2-carboxylic acid, CN 8-chloro-5,6-dihydro-6-[(4-methylphenyl)sulfonyl]-, ethyl ester (CA INDEX NAME)

RN 153894-30-5 CAPLUS CN

4H-Thieno[3,2-d][1]benzazepine-2-carboxylic acid, 5,6-dihydro-8,9-dimethoxy-6-[(4-methylphenyl)sulfonyl]-, ethyl ester (CA INDEX NAME)

RN 153894-33-8 CAPLUS

CN 4H-Thieno[3,2-d][1]benzazepine-2-carboxylic acid, 5,6-dihydro- (CA INDEX NAME)

RN 153894-34-9 CAPLUS

CN 4H-Thieno[3,2-d][1]benzazepine-2-carboxylic acid, 8-chloro-5,6-dihydro-(CA INDEX NAME)

OS.CITING REF COUNT:

6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L28 ANSWER 76 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1994:133367 CAPLUS

DOCUMENT NUMBER: 120:133367

ORIGINAL REFERENCE NO.: 120:23471a,23474a

Synthesis and conformational flexibility of TITLE:

4,9-dihydroindolo[3,2-d][1,2,4]triazolo[4,3-

al[1]benzazepines AUTHOR(S): Kunick, Conrad

CORPORATE SOURCE: Inst. Pharm., Univ. Hamburg, Hamburg, 20146, Germany

SOURCE: Liebigs Annalen der Chemie (1993), (10), 1141-3

CODEN: LACHDL; ISSN: 0170-2041

DOCUMENT TYPE: Journal

LANGUAGE: German

Т

The title compds. (I; R = H, Me, Et, Ph, o-tolyl) were prepared by AB cyclization of a thiolactam with acyl hydrazides. The influence of R on the barrier to ring inversion in I was studied by dynamic 1H-NMR spectroscopy.

153079-84-6P 153079-85-7P 153079-86-8P 153079-87-9P 153079-88-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and ring inversion barrier of) RN 153079-84-6 CAPLUS

CN Indolo[3,2-d][1,2,4]triazolo[4,3-a][1]benzazepine, 9,14-dihydro- (CA INDEX NAME)

RN 153079-85-7 CAPLUS CN Indolo[3,2-d][1,2,4]triazolo[4,3-a][1]benzazepine, 9,14-dihydro-6-methyl-(CA INDEX NAME)

- RN 153079-86-8 CAPLUS
- CN Indolo[3,2-d][1,2,4]triazolo[4,3-a][1]benzazepine, 6-ethyl-9,14-dihydro-(CA INDEX NAME)

- RN 153079-87-9 CAPLUS
- CN Indolo[3,2-d][1,2,4]triazolo[4,3-a][1]benzazepine, 9,14-dihydro-6-phenyl-(CA INDEX NAME)

- RN 153079-88-0 CAPLUS
- CN Indolo[3,2-d][1,2,4]triazolo[4,3-a][1]benzazepine,
 9,14-dihydro-6-(2-methylphenyl) (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L28 ANSWER 77 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1993:213072 CAPLUS

DOCUMENT NUMBER: 118:213072

ORIGINAL REFERENCE NO.: 118:36731a,36734a

TITLE: Preparation of imidazo[1,2-a](pyrrolo, thieno or furano)[3,2-d]azepines as allergy inhibitors
INVENTOR(S): Janssens, Frans Eduard; Diels, Gaston Stanislas

Marcella; Leenaerts, Joseph Elisabeth; Cooymans, Ludwig Paul

PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.

SOURCE: Eur. Pat. Appl., 60 pp. CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	TENT	NO.			KIN)	DATE			APP	LICA	NOI	NO.		D	ATE	
EP	5184	34			A1												
TT.	1018	51			A		1996	0514		TT.	1992-	-1018	51		1	9920	513
CN	1068	116			A		1993	0120		CN	1992	-1048	30		1	9920	516
CN	R: P1 IL 101851 CN 1068116 CN 1033587			C	19961218												
ĊA	2102889			A1	19921214			CA 1992-2102889					19920609				
CA	2102889			С	20021126												
WO	9222553			A1	19921223			WO 1992-EP1331					19920609				
	W:	AU,	BB,	BG,	BR,	CA,	CS,	FI,	HU,	JP	, KP	KR,	LK,	MG,	MW,	NO,	PL,
					US												
	RW:	ΑT,	BE,	BF,	ВJ,	CF,	CG,	CH,	CI,	CM	, DE	DK,	ES,	FR,	GA,	GB,	GN,
	9219 6528	GR,	IT,	LU,	MC,	ML,	MR,	NL,	SE,	SN	, TD,	TG					
ΑU	9219	011			A		1993	0112		AU	1992-	-1901	1		1	9920	609
ΑU	6528	41			B2		1994	0908									
EP	5888 5888	59			A1		1994	0330		ΕP	1992-	-9116	43		1	9920	609
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	MC,	NL,	SE	
JP	0650 3182	7890			T		1994	0908		JP	1992-	-5107	34		1	9920	609
JP	3182	421			B2		2001	0703									
HU	7042	8			A2		1995	1030		HU	1993-	-3554			1	9920	609
HU	2210	13			B1		2002	0729									
PL	1703 2471	76			BI		1996	1231		PL	1992-	-3018	19		1	9920	609
AT	2471	18			T		2003	0815		AT	1992-	-9116	43		1	9920	609
	2204	892			13		2004	0501		ES	1992	-9116	43		1	9920	609
	9204	321			A		1993	1213		ZA	1992-	-4327 -1501	0.0		1	9920	612
	5461	050			A		1995	1024		US	1993-	-1501	21		1	9931	129
MO	9304	493			A D1		1007	0104		INO	1232.	-4493			1	993I	209
NO	3006 1040	77			BI		1000	1116		EТ	1002	6667			1	0021	210
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WO 1992-EP1331 A 19920609 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 118:213072

PRI

GI For diagram(s), see printed CA Issue.

AB Title compds. [I; R1 = H, alkyl, halo, ethenyl substituted with CO2H or alkoxycarbonyl, hydroxylalkyl, CHO, HO2C, hydroxycarbonylalkyl; R2 = H, alkyl, ethenyl or alkyl substituted with CO2H or alkoxy carbonyl, hydroxyalkyl, CHO, CO2H; R3 = H, alkyl, hydroxyalkyl, Ph, halo; L = H,

(substituted) alkyl, alkenyl, ZYQ1, ZNHCOQ2, ZQ3; Y = O, S, NH; Z = C1-4 alkylene; Q1, Q2 = (substituted) furyl, thienyl, oxazolyl, thiazolyl, imidazolyl, pyrrolyl, pyrazolyl, thiadiazolyl, oxodiazolyl, pyrimidinyl, pyrazinyl, pyridazinyl, imidazo[4,5-c]pyridin-2-yl; Q3 = Q1, (substituted) 4,5-dihydro-5-oxo-1H-tetrazolyl, 2-oxo-3-oxazolidinyl, 2,3-dihydro-2-oxo-1H-benzimidazol-1-yl, etc.; X = O, S, NR5; R5 = H, alkyl, alkoxycarrbonyl; dotted lines = optional double bonds| were prepared as broad spectrum antiallergics with excellent oral availability, lack of sedating properties, fast onset of action, and favorable duration of action (no data). Thus, [2-(1-methyl-1H-pyrrol-2-yl)ethyl] methanesulfonate was refluxed 3 daysa with imidazole and K2CO3 in THF to give 61.7% 1-[2-(1-methyl-1H-pyrrol-2-yl)ethyl]-1H-imidazole. The latter and then Et6 1-methyl-4-piperidinecarboxylate were added to a -70° mixture of (MyCH) 2NH and BuLi in THF. The mixture was stirred 1 h at -70° and 2 h at room temperature ti give 60% (1-methyl-4-piperidinyl)[1-[2-(1-methyl-1H-pyrrol-2-yl)ethyl]-1H-imidazol-2-yl]methanone. This was stirred with MeSO3H at 80° to give 10.8% title compound II. Pharmaceutical I formulations are given.

IT 146800-71-7P 146800-72-8P 147184-18-7P 147184-19-8P 147184-20-1P 147184-22-3P

147184-24-5P 147184-27-8P 147210-29-5P RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of, as allergy inhibitor)
RN 146800-71-7 CAPLUS

CN 10H-Imidazo[1,2-a]thieno[3,2-d]azepine, 10-(1-methyl-4-piperidinyl)- (CA INDEX NAME)

RN 146800-72-8 CAPLUS

CN 10H-Imidazo[1,2-a]thieno[3,2-d]azepine, 10-(4-piperidinylidene)- (CA INDEX NAME)

RN 147184-18-7 CAPLUS

CN 10H-Imidazo[1,2-a]thieno[3,2-d]azepine, 10-(1-methyl-4-piperidinylidene)-(CA INDEX NAME)

RN 147184-19-8 CAPLUS

CN Imidazo[1,2-a]pyrrolo[3,2-d]azepine, 7,10-dihydro-7-methyl-10-(1-methyl-4-piperidinyl)- (CA INDEX NAME)

RN 147184-20-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-(10H-imidazo[1,2-a]thieno[3,2-d]azepin-10-ylidene)-, ethyl ester (CA INDEX NAME)

RN 147184-22-3 CAPLUS
CN 10H-Imidazo[1,2-a]thieno[3,2-d]azepine, 10-(4-piperidinylidene)-,
hydrochloride (1:1) (CA INDEX NAME)

● HCl

RN 147184-24-5 CAPLUS
CN 10H-Imidazo[1,2-a]thieno[3,2-d]azepine,
10-[1-[2-(4-methoxyphenyl)ethyl]-4-piperidinylidene]-, ethanedioate (2:5)
(CA INDEX NAME)

CM 1

CRN 147184-23-4 CMF C24 H25 N3 O S

CM 2

CRN 144-62-7 CMF C2 H2 O4

RN 147184-27-8 CAPLUS CN 10H-Imidazo(1,2-a]thieno(3,2-d]azepine, 10-(1-methyl-4-piperidinyl)-, hydrochloride (1:2) (CA INDEX NAME)

●2 HC1

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RN
    147210-29-5 CAPLUS
CN
    5H-Thiazolo[3,2-a]pyrimidin-5-one,
    6-[2-[4-(10H-imidazo[1,2-a]thieno[3,2-d]azepin-10-ylidene)-1-
    piperidinyl]ethyl]-7-methyl-, ethanedioate (1:2) (CA INDEX NAME)
    CM
          1
    CRN 147210-28-4
    CMF C24 H23 N5 O S2
      CH2
      CH<sub>2</sub>
 Ме
    CM
    CRN 144-62-7
    CMF C2 H2 O4
     0
   0
HO-C-C-OH
     146800-88-6P, 4H-Thieno[2,3-d]azepin-5-amine
     146800-89-7P
                     146800-90-0P,
     10H-Imidazo[1,2-a]thieno[3,2-d]azepine 146800-91-1P
     146800-92-2P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of, as intermediates for imidazolazoloazepine inhibitor)
     146800-88-6 CAPLUS
RN
    4H-Thieno[2,3-d]azepin-5-amine (CA INDEX NAME)
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CN

RN 146800-89-7 CAPLUS

CN 4H-Thieno[2,3-d]azepin-5-amine, N-(2,2-dimethoxyethyl)- (CA INDEX NAME)

OMe

RN 146800-90-0 CAPLUS

CN 10H-Imidazo[1,2-a]thieno[3,2-d]azepine (CA INDEX NAME)

RN 146800-91-1 CAPLUS

CN 10H-Imidazo[1,2-a]thieno[3,2-d]azepin-10-one (CA INDEX NAME)

RN 146800-92-2 CAPLUS

CN 10H-Imidazo[1,2-a]thieno[3,2-d]azepin-10-o1, 10-(1-methyl-4-piperidinyl)-(CA INDEX NAME)

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L28 ANSWER 78 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1993:34948 CAPLUS DOCUMENT NUMBER:

118:34948

ORIGINAL REFERENCE NO.: 118:6287a,6290a

TITLE: The interplay between basicity, conformation, and enzymic reduction in biliverdins

AUTHOR(S): Bari, Sara; Frydman, Rosalia B.; Grosman, Claudio;

Frydman, Benjamin CORPORATE SOURCE: Fac. Farm. Bioquim., Univ. Buenos Aires, Buenos Aires,

Argent.

SOURCE: Biochemical and Biophysical Research Communications

(1992), 188(1), 48-56 CODEN: BBRCA9; ISSN: 0006-291X

DOCUMENT TYPE: Journal

LANGUAGE . English

Biliverdins with extended conformations are reduced by biliverdin reductase (BvR) at higher rates than biliverdins with helical conformations. To find out the mol. basis for this important feature of BvR mechanism, helical and extended biliverdins were titrated for their acid-base equilibrium in a protic solvent (methanol). The basicity of biliverding increased with the stretching of the conformation. Biliverdin IX γ (all-syn) has a pKa = 3.6; 5,10,15-syn,syn,anti-biliverdin has a pKa = 3.7; 5,10,15-syn,anti,syn-biliverdin has a pKa = 6.1; 5,10,15-syn,anti,anti-biliverdin has a pKa = 6.4; and 5,10,15-all-anti-biliverdin has a pKa = 7.9. The increase in basicity with progressive stretching of conformations closely parallels the increase in the reduction rates by BvR. A biliverdin constrained by a 4-carbon chain to a helical conformation and which is a very weak base (pKa = 0.4) is not reduced by BvR. Nucleophilic addns. of 2-mercaptoethanol at the C10 in biliverdins closely parallel their

basicities, as can be expected if the formation of a pos. mesomeric species at C10 is linked to the basicity (i.e., the ease of protonation) of the N23 on the pyrrolenine ring. 130877-88-2 145089-48-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with biliverdin reductase, substrate conformation and basicity in relation to)

RN 130877-88-2 CAPLUS

Pvrrolo[1, 2-a]pvrrolo[1'''', 2'''':1''', 7''']azepino[4''', 5''':4'', 5'']pvrr CN olo[1'',2'':1',7']azepino[4',5':4,5]pyrrolo[2,3-d]azepine-2,12-dipropanoic acid, 3,5,6,7,8,13,15,16-octahydro-1,11,17-trimethyl-3,13-dioxo-, 2,12-dimethyl ester (CA INDEX NAME)

PAGE 1-B

- OMe

RN 145089-48-1 CAPLUS

CN 10H-Dipyrrolo[1',2'-a':2,3-d]pyrrolo[1,5-a:2,3-d']bisazepine-9-propanoic acid, 2-[[1,5-dihydro-4-(3-methoxy-3-oxopropy1)-3-methy1-5-oxo-2H-pyrrol-2ylidene]methy1]-4,5,12,13-tetrahydro-3,8,14-trimethy1-10-oxo-, methy1 ester (9C1) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

- OMe

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L28 ANSWER 79 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1992:526659 CAPLUS DOCUMENT NUMBER: 117:126659

ORIGINAL REFERENCE NO.: 117:21869a,21872a

TITLE: Reconstitution of apomyoglobin with extended

biliverdins

AUTHOR(S): Fernandez, Marcelo; Frydman, Rosalia B.; Bari, Sara;

Frydman, Benjamin

CORPORATE SOURCE: Fac. Farm. Bioquim., Univ. Buenos Aires, Buenos Aires,

Argent.

SOURCE: Biochemical and Biophysical Research Communications

(1992), 183(3), 1209-15

CODEN: BBRCA9; ISSN: 0006-291X

Journal

DOCUMENT TYPE: LANGUAGE . English

An anal. of the reconstitution of biliverdins with extended conformations and horse heart apomyoglobin was carried out. Biliverdins with the 5Z-syn, 10Z-syn, 15Z-anti and 5Z-anti, 10Z-syn, 15Z-anti conformations, as well as biliverdins with the Z.Z.Z all-syn conformation recombined with apomyoglobin. In every case the P enantiomers were bound in excess to the M enantiomers, with the exception of the 5-syn, 10-syn, 15-anti biliverdins where the M enantiomer bound preferentially to the protein. Biliverdins with an anti conformation at the C-10 meso bridge did not recombine with the protein. It was concluded that the presence of a syn conformation at the C-10 methine conferred to the biliverdin the necessary helicity to fit into the apomyoglobin heme pocket. This regioselectivity of the heme pocket is of importance in view of the well-known analogy

between the ligand domains of myoglobin and the C-phycocyanins. 130877-84-8 143222-57-5 143222-59-7

RL: PRP (Properties) (apomyoglobin reconstitution with, structure in relation to)

130877-84-8 CAPLUS RN

Pvrrolo[1, 2-a]pvrrolo[1'''', 2'''':1''', 7''']azepino[4''', 5''':4'', 5'']pvrr CN olo[1'',2'':1',7']azepino[4',5':4,5]pyrrolo[2,3-d]azepine-2,12-dipropanoic acid, 3,5,6,7,8,13,15,16-octahydro-1,11,17-trimethyl-3,13-dioxo- (CA INDEX NAME)

RN 143222-57-5 CAPLUS

Dipyrrolo[1,2-a:2',3'-d]azepine-9-propanoic acid, 2-[[9-(2-carboxyethyl)-4,5-dihydro-3,8-dimethyl-7-oxodipyrrolo[1,2-a:2',3'dlazepin-2(7H)-vlidenelmethvll-1,4,5,7-tetrahydro-3,8-dimethvl-7-oxo-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A

PAGE 1-B

CO2H

RN 143222-59-7 CAPLUS

CN 5H-Dipyrrolo[1',2'-a':2,3-d]pyrrolo[1,5-a:2,3-d']bisazepine-9-propanoic acid, 2-[[4-(2-carboxyethyl)-1,5-dihydro-3-methyl-5-oxo-2H-pyrrol-2-yidene]methyl]-4,10,12,13-tetrahydro-3,8,14-trimethyl-10-oxo-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-B

-CO2H

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L28 ANSWER 80 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1991:61950 CAPLUS

DOCUMENT NUMBER: 114:61950

ORIGINAL REFERENCE NO.: 114:10623a, 10626a

TITLE: Preparation and formulation of tetra- and

decahydroquinoline-4-carboxylic acids and analogs for

use in tissue irrigating solutions

INVENTOR(S): Leclerc, Gerard; Ruhland, Beatrice; Andermann, Guy; De

Burlet, Georges; Dietz, Michel PATENT ASSIGNEE(S): Laboratoires Alcon S. A., Fr.

PATENT ASSIGNEE(S): Laboratoires Alcon SOURCE: U.S., 16 pp.

CODEN: USXXAM
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4952573	A	19900828	US 1988-172047	19880323
PRIORITY APPLN. INFO.:			US 1988-172047	19880323
ASSIGNMENT HISTORY FOR	US PATENT	AVAILABLE	IN LSUS DISPLAY FORMAT	

OTHER SOURCE(S): CASREACT 114:61950

AB The title compds. having γ -aminobutyric acid (GABA) like activity, were prepared for use in tissue irrigating solns. to promote corneal deswelling during otic surgery. Thus, N-methylquinoline-4-carboxamide was stirred with Ni-Al alloy in aqueous MeOH containing KOH and the product

refluxed

14 h with aqueous HCl to give 1,2,3,4-tetrahydroquinoline-4-carboxylic acid-HCl, which gave 34.6 μ m reduction of bovine corneal swelling after 3 h perfusion at 0.01 mM compared to 17.2 μ m reduction by GABA under the same conditions.

IT 131753-37-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, in preparation of otic tissue irrigant)

RN 131753-37-2 CAPLUS

CN 6H-Isoxazolo[4,5-d][1]benzazepine-6-carboxylic acid, 2,3,4,5-tetrahydro-3-oxo-, ethyl ester (CA INDEX NAME)

IT 131753-38-3P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as otic tissue irrigant)

RN 131753-38-3 CAPLUS

CN 3H-Isoxazolo[4,5-d][1]benzazepin-3-one, 2,4,5,6-tetrahydro-, hydrobromide (1:1) (CA INDEX NAME)

• HBr

OS.CITING REF COUNT:

- 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
- REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 81 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1991:2582 CAPLUS

DOCUMENT NUMBER: 1991:2382

ORIGINAL REFERENCE NO.: 114:531a,534a

TITLE: The enzymic and chemical reduction of extended

biliverdins

AUTHOR(S): Frydman, Rosalia B.; Bari, Sara; Tomaro, Maria L.; Frydman, Benjamin

CORPORATE SOURCE: Fac. Farm. Bioquim., Univ. Buenos Aires, Buenos Aires,

Argent.

SOURCE: Biochemical and Biophysical Research Communications

(1990), 171(1), 465-73

CODEN: BBRCA9; ISSN: 0006-291X

DOCUMENT TYPE: Journal LANGUAGE: English

LANUGARE: Amglass.
AB The substrate specificity of rat liver biliverdin reductase was probed using helical and extended biliverdins. The former were the ZZZ-all-syn biliverdins IX a and IX y, and the latter were the 5Z-syn,

102-syn, 152-anti; 52-anti, 102-syn, 152-anti; 52-syn, 108-anti, 152-syn; 552-syn, 108-anti, 152-syn; 552-syn, 108-anti, 152-anti and 52-anti, 108-anti, 158-anti biliverdins. Reduction rates of the biliverdins increased with the progressive stretching of their conformations. The most extended biliverdin was reduced at a higher rate than biliverdin IX a. The chemical reduction rates to bilirubins followed a similar pattern. Nucleophilic addition of 2-mercaptoethanol to the C10 methine was also favored in the extended

biliverdins. 130877-88-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(hydrolysis of)

RN 130877-88-2 CAPLUS

CN Pyrrolo[1, 2-a]pyrrolo[1''',2''':1''',7''']azepino[4''',5''';5'']pyrrolo[1''',2'':1'',7'']azepino[4'',5'':4,5]pyrrolo[2,3-d]azepine-2,12-dipropanoic acid, 3,5,6,7,8,13,15,16-octahydro-1,11,17-trimethyl-3,13-dioxo-,

2,12-dimethyl ester (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

- OMe

IT 130877-84-8P 130888-62-9P RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and reduction by chemical reagent or mammalian biliverdin reductase, $\ensuremath{\mathsf{c}}$

structure relation to)

RN 130877-84-8 CAPLUS

CN Pyrrolo[1,2-a]pyrrolo[1''',2''':1'',7'']azepino[4''',5'':4'',5'']pyrrolo[1''',2'':1',7']azepino[4',5':4,5]pyrrolo[2,3-d]azepine-2,12-dipropanoic acid, 3,5,6,7,8,13,15,16-octahydro-1,11,17-trimethyl-3,13-dioxo- (CA INDEX NAME)

RN 130888-62-9 CAPLUS

CN Dipyrrolo[1,2-a:2',3'-d]azepine-8-propanoic acid, 2-[[8-(2-carboxyethyl)-4,5-dihydro-3,9-dimethyl-7-oxodipyrrolo[1,2-a:2',3'-

d]azepin-2(7H)-ylidene]methyl]-1,4,5,7-tetrahydro-3,9-dimethyl-7-oxo-,(Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-B

_ CO2H

IT 130877-89-3P 130877-90-6P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, extended or helical conformation effects on mercapto group nucleophilic addition in)

RN 130877-89-3 CAPLUS

CN Pyrrolo[1,2-a]pyrrolo[1''',2''':1''',7''']azepino[4''',5'':4'',5'']pyrr
olo[1'',2'':1',7']azepino[4',5':4,5]pyrrolo[2,3-d]azepine-2,12-dipropanoic
acid, 3,5,6,7,8,13,15,16-octahydro-18-[(2-hydroxyethyl)thio]-1,11,17trimethyl-3,13-dioxo- (CA INDEX NAME)

RN 130877-90-6 CAPLUS

CN Dipyrrolo[1,2-a:2',3'-d]azepine-8-propanoic acid,
2-[[8-(2-carboxyethyl)-1,4,5,7-tetrahydro-3,9-dimethyl-7-oxodipyrrolo[1,2-a:2',3'-d]azepin-2-yl][(2-hydroxyethyl)thio]methylene]-2,4,5,7-tetrahydro-3,9-dimethyl-7-oxo-,(2)-(9CI) (CA INDEX NAME)

IT 130888-64-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(saponification of)

RN 130888-64-1 CAPLUS

CN Dipyrrolo[1,2-a:2',3'-d]azepine-8-propanoic acid,

2-[[4,5-dihydro-8-(2-methoxy-3-oxopropy1)-3,9-dimethyl-7-oxodipyrrolo[1,2-a:2',3'-d]azepin-2(7H)-ylidene]methyl]-1,4,5,7-tetrahydro-3,9-dimethyl-7-oxo-, methyl ester, (2)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-B

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L28 ANSWER 82 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1989:75127 CAPLUS DOCUMENT NUMBER:

110:75127

ORIGINAL REFERENCE NO.: 110:12401a,12404a

Total synthesis of "extended" biliverdins. The TITLE: relation between their conformation and their

spectroscopic properties

AUTHOR(S): Iturraspe, Jose B.; Bari, Sara; Frydman, Benjamin CORPORATE SOURCE: Fac. Farm. Bioquim., Univ. Buenos Aires, Buenos Aires,

1113, Argent.

SOURCE: Journal of the American Chemical Society (1989),

111(4), 1525-7 CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: English GΙ

Extended biliverdins of the neopterobilin type, e.g., I, were obtained by AB treatment of Z,Z,Z-2-chloroethylbiliverdins, e.g., II, with DBU at 25° . When the 2-chloroethyl residue was at C(7), rotation at the C(5)-C(6) bond allowed a 52-syn to 52-anti conformational change followed by an intramol. alkylation at N(21). A seven-membered ring was thus formed, which kept the new biliverdin in a 5Z-anti, 10Z-syn 15Z-syn conformation. When two 2-chloroethyl residues at C(7) and C(13) were present in the bilitriene, the DBU treatment afforded a 5Z-anti, 10Z-syn, 15Z-anti biliverdin with two seven-membered rings which resulted from the intramol. alkylation at N(21) and N(24). When the 2-chloroethyl chain was at C(8), a seven-membered ring was formed by alkylation at N(23) and the resulting biliverdin had a 5Z-syn, 10E-anti, 15Z-syn conformation. The IH-NMR spectra of the extended biliverdins are concentration dependent, indicating that these biliverdins (unlike those with a helicoidal conformation) associate in solution Their spectra were also temperature dependent and

at -80 °C a mixture of conformers could be detected. The £ vis/£ UV ratio of the extended biliverdins increased about a 40-fold over the ratio of the helical-shaped biliverdins, a fact that can be useful for the interpretation of the spectra of biliproteins.

II 118631-57-5P 118631-58-6F 118631-60-0P

118631-57-5P 118631-58-6P 118631-60-0P RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation, conformation, and spectral characterization of)

RN 118631-57-5 CAPLUS

1H-Pyrrole-3-propanoic acid, 2-[[2-[(8-ethenyl-1,4,5,7-tetrahydro-3,9-dimethyl-7-oxodipyrrolo[1,2-a:2',3'-d]azepin-2-yl]methylene]-4-(3-methoxy-3-oxopropyl)-3-methyl-2H-pyrrol-5-yl]methylene]-2,5-dihydro-4-methyl-5-oxomethyl ester, (2,2)-(9C1) (CA INDEX NAME)

Double bond geometry as shown.

RN 118631-58-6 CAPLUS CN Dipyrrolo[1,2-a:2',

Dipyrrolo[1,2-a:2',3'-d]azepine-9-propanoic acid, 2-[[4,5-dihydro-9-(3-methoxy-3-oxopropy1)-3,8-dimethy1-7-oxodipyrrolo[1,2-a:2',3'-d]azepin-2(7H)-ylidene]methy1]-1,4,5,7-tetrahydro-3,8-dimethy1-7-oxo-, methy1 ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-B

RN 118631-60-0 CAPLUS

CN 1H-Pyrrole-3-propanoic acid, 2-[[2-[(8-ethenyl-1,4,5,7-tetrahydro-3,9-dimethyl-7-oxodipyrrolo[1,2-a:2',3'-d]azepin-2-yl-6-15N)methylene]-4-(3-methoxy-3-oxopropyl)-3-methyl-2H-pyrrol-5-yl]methylene]-2,5-dihydro-4-methyl-5-oxo-, methyl ester, (7,2)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L28 ANSWER 83 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1987:32948 CAPLUS DOCUMENT NUMBER: 106:32948

ORIGINAL REFERENCE NO.: 106:5523a,5526a

TITLE: Synthesis of pyrazolo[4,5-d]- and

pyrazolo[4,5-c][1]benzazepine derivatives. IV

Melani, Fabrizio; Cecchi, Lucia; Palazzino, Giovanna; AUTHOR(S):

Filacchioni, Guido

CORPORATE SOURCE: Dip. Sci. Farm., Univ. Firenze, Florence, 50121, Italy Journal of Heterocyclic Chemistry (1986), 23(1), 173-6

SOURCE: CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal LANGUAGE:

English OTHER SOURCE(S): CASREACT 106:32948

GΙ

Me N Ι

NO2 NO2 CO2H N τv

AB Title compds. I and II (R = H, 3-Cl, 4-Cl, 3-Me), analogs of the antitumor agent anthramycin, were prepared starting from pyrazoles III and IV, resp. тт 106148-11-2P 106148-12-3P 106148-13-4P

106148-14-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as antitumor agent)

II

106148-11-2 CAPLUS RN

Pyrazolo[4,3-d][1]benzazepin-5(1H)-one, 4,6-dihydro-3-methyl-1-phenyl-CN (CA INDEX NAME)

RN 106148-12-3 CAPLUS CN Pyrazolo[4,3-d][1]benzazepin-5(1H)-one,

1-(3-chlorophenyl)-4,6-dihydro-3-methyl- (CA INDEX NAME)

RN 106148-13-4 CAPLUS

CN Pyrazolo[4,3-d][1]benzazepin-5(1H)-one,
4,6-dihydro-3-methyl-1-(3-methylphenyl)- (CA INDEX NAME)

RN 106148-14-5 CAPLUS

CN Pyrazolo[4,3-d][1]benzazepin-5(1H)-one, 1-(4-chlorophenyl)-4,6-dihydro-3-methyl- (CA INDEX NAME)

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L28 ANSWER 84 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1984:403202 CAPLUS

DOCUMENT NUMBER: 101:3202

ORIGINAL REFERENCE NO.: 101:559a,562a

TITLE: Determination of the radioprotective activity of

imipramine analogs

AUTHOR(S): Gansser, C.; Marcot, B.; Viel, C.; Fatome, M.; Laval,

CORPORATE SOURCE:

Lab. Pharm. Chim., Fac. Pharm., Chatenay-Malabry, F 92290, Fr.

SOURCE: Annales Pharmaceutiques Francaises (1983), 41(5), 465-71

CODEN: APFRAD; ISSN: 0003-4509

DOCUMENT TYPE: Journal

LANGUAGE: French

Т

GI

(CH2)3NMe2

ΔR The radioprotective activity of analogs of imipramine (I) were examined The radioprotectant activity was studied in male albino mice exposed to γ-irradiation (0.3 Gy/min) and injected with 50-375 mg/kg i.p., and the results compared with AET. The I analogs containing pyridoazepine or azepinone had radioprotectant activity based on LD50/30, but were all inferior to AET.

90358-80-8 90358-81-9 RL: BIOL (Biological study) (radioprotection by)

90358-80-8 CAPLUS

CN 8H-Dibenz[b,f]isoxazolo[5,4-d]azepine-8-ethanamine,

N, N-dimethyl-3-phenyl-, hydrochloride (1:?) (CA INDEX NAME)

●x HCl

●x HCl

L28 ANSWER 85 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1983:143412 CAPLUS

DOCUMENT NUMBER: 98:143412

ORIGINAL REFERENCE NO.: 98:21853a,21856a

TITLE: Dibenzazepine tetracyclic derivatives and pharmaceutical compositions containing them INVENTOR(S): Viel, Claude: Marcot, Bernoud; Redeuilh, Gerard;

Djiane, Alain; Cherqui, Jean

PATENT ASSIGNEE(S): Centre National de la Recherche Scientifique, Fr.

SOURCE: Eur. Pat. Appl., 54 pp.

CODEN: EPXXDW
DOCUMENT TYPE: Patent

LANGUAGE: French FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO.					KIND		DATE		APPLICATION NO.			DATE
EP	63525				A1		19821027			EP	1982-400680		19820415
	R:	BE,	CH,	DE,	FR,	GB,	, IT	, NL,	SE				
FR	2504	140			A1		198	21022		FR	1981-7707		19810416
FR	2504	140			B1		198	31202					
JP	5808	8384			A		198	30526		JP	1982-63793		19820416
PRIORITY APPLN. INFO.:										FR	1981-7707	A	19810416
OTHER S	CASREACT 98:143412				412	M	ARPAT 98:143412						
GI													

- AB Azolodibenzazepines I (X = 0, NR7; X1 = alkene; R = alkyl, Ph, substituted Ph; Rl, R2 = H; RlR2 = bond, R3, R4 = H, alkyl, aralkyl; NR3R4 = heterocyclic; S5, R6 = H, alkyl, alkoxy, CF3, alkylenedioxy, OH, SH, OCCl3, OCF3, SCF3, amino, aminosulfonyl, cyano, NO2, CO2H, alkoxycarbonyl, carbamoyl, acyl, sulfinyl, sulfonyl; R7 = Ph, substituted Ph) were prepared Thus, dibenzazepine was treated with ClCH2CH2NMe2 and cyclized with PhCCl:NOH to give II. At 5 mg/kg i.p. II was antireserpine activity in mice. II gave 70% protection against phenylbenzoquine writhing in mice at 20 mg/kg i.p. It had an anticholinergic ED50 of 5 + 10-4 mg/mL in the isolated quinea pig ileum.
- IT 85008-87-3P 85008-88-4P 85008-90-8P 85008-92-P 85008-93-P 85008-94-P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and antidepressant activity of)
- RN 85008-87-3 CAPLUS
- CN Dibenzo[b,f]pyrazolo[3,4-d]azepine, 1,8-dihydro-1,3-diphenyl- (CA INDEX

NAME)

RN 85008-88-4 CAPLUS

CN 8H-Dibenz[b,f]isoxazolo[4,5-d]azepine-8-propanamine, N,N-dimethyl-3-phenyl-, hydrochloride (1:1) (CA INDEX NAME)

● HCl

RN 85008-90-8 CAPLUS

CN Dibenzo[b,f]pyrazolo[4,3-d]azepine-8(1H)-ethanamine, N,N-dimethyl-1,3-diphenyl-, hydrochloride (1:1) (CA INDEX NAME)

● HCl

RN 85008-92-0 CAPLUS CN 8H-Dibenz[b,flisox

N 8H-Dibenz[b,f]isoxazolo[5,4-d]azepine-8-ethanamine, N,N-dimethyl-3-phenyl-, hydrochloride (1:1) (CA INDEX NAME)

● HC1

RN 85008-93-1 CAPLUS

CN 8H-Dibenz[b,f]isoxazolo[5,4-d]azepine-8-propanamine, N,N, β -trimethyl-3-phenyl-, hydrochloride (1:1) (CA INDEX NAME)

● HCl

RN 85008-94-2 CAPLUS

CN Dibenzo[b,f]pyrazolo[4,3-d]azepine-8(1H)-propanamine,
 N,N-dimethyl-1,3-diphenyl-, hydrochloride (1:1) (CA INDEX NAME)

HC1

IT 85008-91-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 85008-91-9 CAPLUS

CN Dibenzo[b,f]pyrazolo[4,3-d]azepine-8(1H)-propanamine, N,N, β -trimethyl-1,3-diphenyl-, hydrochloride (1:1) (CA INDEX NAME)

● HCl

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L28 ANSWER 86 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1980:495115 CAPLUS

DOCUMENT NUMBER: 93:95115

ORIGINAL REFERENCE NO.: 93:15245a,15248a

TITLE: Synthesis of pyrroles, pyridines, and azepines from

2H-azirines

AUTHOR(S): Saruwatari, Masumi; Hatano, Sumiko; Isomura, Kazuaki;

Taniquchi, Hiroshi

CORPORATE SOURCE: Fac. Eng., Kyushu Univ., Fukuoka, Japan

SOURCE: Fukusokan Kagaku Toronkai Koen Yoshishu, 12th (1979),

211-15. Kitasato Daigaku Yakugakubu: Tokyo, Japan.

CODEN: 42VCA9 DOCUMENT TYPE: Conference LANGUAGE: Japanese

GI

AB The controlling factor for the formation of pyrroles, pyridines, and azepines (e.g. I-III) from 2H-azirines (e.g. IV, R = H, Me, Ph) were discussed with mechanistic detail.

63325-41-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 63325-41-7 CAPLUS

CN 5H-Benzofuro[2,3-d][1]benzazepine-6-carboxylic acid, ethyl ester (CA INDEX NAME)

NH - OEt

L28 ANSWER 87 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1979:22951 CAPLUS DOCUMENT NUMBER: 90:22951

DOCUMENT NUMBER: 90:22951
ORIGINAL REFERENCE NO.: 90:3791a.3794a

TITLE: Azabenzocycloheptenones. Part 19. Formation of some

heterocyclic annulated compounds from

1,2,3,4-tetrahydro-1-benzazepine derivatives

AUTHOR(S): Proctor, George R.; Smith, Brian M. L.

CORPORATE SOURCE: Dep. Pure Appl. Chem., Univ. Strathclyde, Glasgow, UK SOURCE: Journal of the Chemical Society, Perkin Transactions

1: Organic and Bio-Organic Chemistry (1972-1999) (1978), (8), 862-70

CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 90:22951

AB 4-(Ethoxycarbonyl)- and 4-(hydroxymethylene)benzazepin-5-one derivs. I were converted into pyrimidobenzazepines II, pyrazolobenzazepine III, and isoxazolobenzazepine IV by reaction with guanidine, NHZNHZ, and NHZOH, resp. E.g., I [R = 4-MeCHHSO2 (Ts) [RI = COZET, R2 = H and RIR2 = CHOH) with guanidine gave II (Rl = OH, R2 = NH2 and Rl = H, R2 = NHMe), I (R = Ts, RIR2 = CHOH) with NHZNHZ gave 95% III, and I (R = CHO, RIR2 = CHOH) with NHZOH gave 52% IV. [1,2,3]Thiadiazolo[5,4-d]-, quinolino[3,2-d]-, indolo[3,2-c]- and isoxazolo[4,3-d][1]benzazepine derivs. were also prepared 68595-18-6F 68595-20-0F 68595-35-7F

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of) RN 68595-18-6 CAPLUS

CN 4H-Isoxazolo[4,5-d][1]benzazepine,

5,6-dihydro-6-[(4-methylphenyl)sulfonyl]- (CA INDEX NAME)

- RN 68595-20-0 CAPLUS
- CN 6H-Isoxazolo[4,5-d][1]benzazepine-6-carboxaldehyde, 4,5-dihydro- (CA INDEX NAME)

- RN 68595-35-7 CAPLUS
- CN Imidazo[4,5-d][1]benzazepine, 7,9-dibromo-1,4,5,6-tetrahydro- (CA INDEX NAME)

- OS.CITING REF COUNT:
- 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L28 ANSWER 88 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1978:152465 CAPLUS

DOCUMENT NUMBER: 88:152465

ORIGINAL REFERENCE NO.: 88:24025a,24028a

Studies on heterocyclic compounds. XLIII. Reaction TITLE: of 1-phenyl-4-hydrazino-4,5-dihydro-6H-furo[2,3-

d||1||benzazepine-5-carboxvlic acid hydrazide with

aromatic aldehydes

AUTHOR(S): Ito, Kazuo; Yakushijin, Kenichi; Yoshina, Shigetaka

CORPORATE SOURCE: Fac. Pharm., Meijo Univ., Nagoya, Japan

SOURCE: Heterocycles (1978), 9(2), 169-73

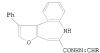
CODEN: HTCYAM; ISSN: 0385-5414

DOCUMENT TYPE: Journal English

LANGUAGE:

NHNR2 CONHNR2

NH



- AB The title compound (I; R = H) reacted with R1CHO (R1 = 2-furyl, Ph,
- p-C1C6H4) in EtOH to give I (R2 = CHR1) and the monoarylidene derivative II.
- 66206-57-3P
 - RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and condensation with aldehydes)
- RN
- 66206-57-3 CAPLUS
- CN 6H-Furo[2,3-d][1]benzazepine-5-carboxylic acid, 1-phenyl-, hydrazide (CA INDEX NAME)



- 63874-16-8P
 - RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
- (preparation and reaction with hydrazine)
- RN 63874-16-8 CAPLUS
- 6H-Furo[2,3-d][1]benzazepine-5-carboxylic acid, 1-phenyl-, ethyl ester

(CA INDEX NAME)

- IT 66206-53-9P 66206-54-0P 66206-55-1P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
- RN 66206-53-9 CAPLUS
- CN 6H-Furo[2,3-d][1]benzazepine-5-carboxylic acid, 1-phenyl-, 2-(2-furanylmethylene)hydrazide (CA INDEX NAME)

- RN 66206-54-0 CAPLUS
- CN 6H-Furo[2,3-d][1]benzazepine-5-carboxylic acid, 1-phenyl-, 2-(phenylmethylene)hydrazide (CA INDEX NAME)

RN 66206-55-1 CAPLUS CN 6H-Furo[2,3-d][I]]benzazepine-5-carboxylic acid, 1-phenyl-, 2-[(4-chlorophenyl)methylene]hydrazide (CA INDEX NAME)

L28 ANSWER 89 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN 1977:502204 CAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER: 87:102204

ORIGINAL REFERENCE NO.: 87:16223a,16226a

Studies on heterocyclic compounds. Part XXXI. TITLE:

Synthesis of ethyl 1-phenyl- and

2-methyl-6H-furo[2,3-d][1]benzazepine-5-carboxylates AUTHOR(S): Yakushijin, Kenichi; Yoshina, Shigetaka; Tanaka, Akira

CORPORATE SOURCE:

Fac. Pharm., Meijo Univ., Nagoya, Japan SOURCE: Heterocycles (1977), 6(6), 721-5

CODEN: HTCYAM; ISSN: 0385-5414

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 87:102204

GT

- Thermolysis of I (R = Ph, R1 = H; R = H, R1 = Me) in ligroin gave II, which on thermolysis in boiling xylene gave III. Reduction of III with Zn in AcOH gave IV (R2 = CO2Et), which when treated with NaBH4 in EtOH gave IV (R2 = CH2OH), which was also obtained by direct reduction of III with NaBH4 in EtOH.
- тт 63874-16-8P 63874-17-9P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
- (preparation and reduction of)
- RN 63874-16-8 CAPLUS
- CN 6H-Furo[2,3-d][1]benzazepine-5-carboxylic acid, 1-phenyl-, ethyl ester (CA INDEX NAME)

RN 63874-17-9 CAPLUS CN 6H-Furo[2,3-d][1]benzazepine-5-carboxylic acid, 2-methyl-, ethyl ester (CA INDEX NAME)

L28 ANSWER 90 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1977:453010 CAPLUS DOCUMENT NUMBER:

87:53010

ORIGINAL REFERENCE NO.: 87:8395a,8398a

TITLE: Compelled azepine ring formation in thermal ring

expansion of 2H-azirine

AUTHOR(S): Isomura, Kazuaki; Taguchi, Hiroshi; Tanaka,

Tatsuvoshi; Taniguchi, Hiroshi

CORPORATE SOURCE: Fac. Eng., Kyushu Univ., Fukuoka, Japan SOURCE: Chemistry Letters (1977), (4), 401-4

CODEN: CMLTAG; ISSN: 0366-7022

DOCUMENT TYPE: Journal

LANGUAGE: English GT

AB Thermolyses of benzofuran-2-ylvinyl azides I (R = H, Me, Ph) gave benzofuropyrrole II, benzofuropyridine III, and benzofurobenzazepine IV, resp. Photolysis of these azides gave the corresponding 2H-azirines V, which on heating gave the same heterocyclic comdps., II-IV, as arose from the thermolysis of I.

63325-41-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 63325-41-7 CAPLUS

5H-Benzofuro[2,3-d][1]benzazepine-6-carboxylic acid, ethyl ester (CA INDEX NAME)

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L28 ANSWER 91 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1977:439331 CAPLUS

DOCUMENT NUMBER: 87:39331

ORIGINAL REFERENCE NO.: 87:6202h,6203a

TITLE: New route to the hexahydroazepino[4,5-b]indole series.

Rearrangement of hexahydroindolo[2,3-a]quinolizine by

the action of cvanogen bromide

AUTHOR(S): Costa, G.; Riche, C.; Husson, H. P.

CORPORATE SOURCE: Inst. Chim. Subst. Nat., CNRS, Gif-sur-Yvette, Fr.

SOURCE: Tetrahedron (1977), 33(3), 315-20

CODEN: TETRAB; ISSN: 0040-4020

DOCUMENT TYPE: Journal

LANGUAGE: French

OTHER SOURCE(S): CASREACT 87:39331

GI

AB The enamine I (R = H) with BrCN and Na2CO3 in aqueous THF gave 47% hexahydroazepinoindole II and 5% octahydroindolequinolizine III. II and III are formed via I (R = Br) which undergoes further reaction with BrCN to give III and reaction with HO-CN preserved in the reaction with BrCN to give III. II with base in refluxing xylene gave cyclization product IV, the structure of which was determined by x-ray crystallog. anal.

IT 62281-60-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and crystal structure of)

RN 63281-60-7 CAPLUS

CN 5H-Pyrano[3',2':2,3]azepino[4,5-b]indole-5-carbonitrile, 2,3,4,6,7,12-hexahydro- (CA INDEX NAME)

IT 63281-59-4P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 63281-59-4 CAPLUS

CN 5H-Pyrano[3',2':2,3]azepino[4,5-b]indole-5-carboximidic acid, 2,3,4,6,7,12-hexahydro-, methyl ester (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L28 ANSWER 92 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1975:593122 CAPLUS

DOCUMENT NUMBER: 83:193122

ORIGINAL REFERENCE NO.: 83:30369a,30372a

TITLE: Nucleophilic displacement of aromatic fluorine. III.

Indologuinolines and benzofuranoguinolines AUTHOR(S): Walser, Armin; Silverman, Gladys; Flynn, Thomas;

Frver, R. Ian

CORPORATE SOURCE: Hoffman-LaRoche Inc., Nutley, NJ, USA

SOURCE: Journal of Heterocyclic Chemistry (1975), 12(2), 351-8

CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 83:193122 For diagram(s), see printed CA Issue.

Several indologuinoline, benzofuranoquinoline, and indolobenzazepine

derivs., e.g. I-IV were prepared by intramol nucleophilic displacement of fluorine. Thus V (R = OEt) was aminated to give V (R = NH2), which was

treated with NaH to give I. 57046-64-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of) INDEX NAME)

57046-64-7 CAPLUS CN Indolo[2,3-d][1]benzazepine, 11-chloro-5,8-dihydro-5,8-dimethyl- (CA

Me OS.CITING REF COUNT:

THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

L28 ANSWER 93 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1975:43773 CAPLUS
DOCUMENT NUMBER: 82:43773
ORIGINAL REFERENCE NO.: 82:6977a.6980a

ORIGINAL REFERENCE NO.: 82:6977a,6980a
TITLE: Heat resistant polymers and solubilization

AUTHOR(S): Higgins, Jerry

CORPORATE SOURCE: Dep. Chem., Illinois State Univ., Normal, IL, USA
SOURCE: Papers presented at [the] Meeting - American Chem

Papers presented at [the] Meeting - American Chemical Society, Division of Organic Coatings and Plastics

Chemistry (1973), 33(1), 241-9

CODEN: ACOCAO; ISSN: 0096-512X

DOCUMENT TYPE: Journal LANGUAGE: English

AB The heat-resistant heterocyclic polymers (such as poly(2,4-pyrazinediyl-1,4-phenylene) [25482-93-3],

benzene-1,2,4,5-tetraamine-benzo[1,2-b:5,4-b'] dipyrrole-2,3,5,6-tetrone copolymer [35560-14-6], etc.) were prepared, and their solubilization in acids containing H2O2 studied.

IT 35165-04-9

RL: PRP (Properties) (properties of)

RN 35165-04-9 CAPLUS

CN Poly(7H-indolo[2,3-b]pyrazino[2,3-g]quinoxaline-2,3:9,10-tetrayl-9-imino)
(9CI) (CA INDEX NAME)

L28 ANSWER 94 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1972:488890 CAPLUS

DOCUMENT NUMBER: 77:88890

ORIGINAL REFERENCE NO.: 77:14689a,14692a

TITLE: Polybenzodipyrrologuinoxalines

AUTHOR(S): Janovic, Z.; Higgins, Jerry

Dep. Chem., Illinois State Univ., Normal, IL, USA CORPORATE SOURCE: SOURCE:

Journal of Polymer Science, Part A-1: Polymer

Chemistry (1972), 10(6), 1609-15

CODEN: JPSPC3; ISSN: 0449-296X

DOCUMENT TYPE: Journal

LANGUAGE: English

Condensation of benzo[1,2-b:5,4-b']dipyrrolo-2,3,4,5-tetraone (I) with 1,2,4,5-tetraaminobenzene in polyphosphoric acid at 200-50.deg. gave the ladder polymer benzo[1,2-b:5,4-b']dipyrrolo-2,3,4,5-tetraone-1,2,4,5tetraaminobenzene polymer (II) [35560-14-6]. Semiladder polymers were similarly prepared from I and 3,3'-diaminobenzidine or

bis(3,4-diaminophenyl) ether. The polymers had intrinsic viscosity (H2SO4) 0.86-0.90, and thermal stability 460.deg. and .leq.700.deg. in air and N, resp. Three model compds, were also prepared from 2,3-indandione and

tetraamines. 35165-04-9

RL: PRP (Properties) (heat resistance of)

35165-04-9 CAPLUS RN

Poly (7H-indolo[2,3-b]pvrazino[2,3-q]quinoxaline-2,3:9,10-tetrayl-9-imino) (9CI) (CA INDEX NAME)

L28 ANSWER 95 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1972:435327 CAPLUS

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 77:5885a,5888a

TITLE: Ladder poly(benzodipyrrologuinoxaline)

AUTHOR(S): Higgins, Jerry; Janovic, Z.

CORPORATE SOURCE: Dep. Chem., Illinois State Univ., Normal, IL, USA SOURCE:

Journal of Polymer Science, Polymer Letters Edition

(1972), 10(4), 301-3

CODEN: JPYBAN: ISSN: 0360-6384

DOCUMENT TYPE: Journal

LANGUAGE:

English

Heat-resistant poly[7H-indolo[2,3-b]pyrazino[2,3-g]quinoxaline-2,3:9,10tetray1-9-imino] (I) [35165-04-9] was prepared by the reaction of benzo[1,2-b:5,4-b']dipyrrolo-2,3,5,6-tetrone and 1,2,4,5-C6H2(NH2)4 in

polyphosphoric acid. 6,8-

Dihydrobenzo[1'',2'':4,5:5'',4'':4',5']dipyrrolo[2,3-b:2',3'b']diquinoxaline (II) [35180-58-6] and

5H-indolo[2,3-b]-9H-indolo[2',3':5,6]pyrazino[2,3-g]quinoxaline (III) [35180-59-7] were prepared as model compds.

35165-04-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

35165-04-9 CAPLUS RN CN Poly (7H-indolo[2,3-b]pyrazino[2,3-q]quinoxaline-2,3:9,10-tetrayl-9-imino) (9CI) (CA INDEX NAME)

TITLE:

ACCESSION NUMBER:

DOCUMENT NUMBER:

L28 ANSWER 96 OF 96 CAPLUS COPYRIGHT 2010 ACS on STN

57:36315 ORIGINAL REFERENCE NO.: 57:7246d-i,7247a-i,7248a-i,7249a-i,7250a-c

1962:436315 CAPLUS

1,3-Dipolar addition. I. Diphenylnitrilimine and its

1,3-dipolar additions to alkenes and alkynes

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AUTHOR(S):
                        Huisgen, Rolf; Seidel, Michael; Wallbillich, Guenter;
                        Knupfer, Hans
CORPORATE SOURCE:
                        Univ. Munich, Germany
SOURCE:
                        Tetrahedron (1962), 17, 3-29
                        CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        German
    The previously undescribed diphenylnitrilimine PhCNNPh (I) is available by
     elimination of N from 2,5-diphenyltetrazole (II) at 160° or by
     dehydrochlorination of PhCCl:NNHPh (III) at 20-80° with NEt3.
     adds in situ to alkenes and alkynes forming 1,3-dipheny1-Δ2
     pyrazolines and 1,3-diphenylpyrazoles, resp. PhNHNHBz (40 g.) and 48 g.
     PC13 refluxed 10 hrs. (H2O-free atmospheric) in 50 ml. anhydrous Et2O and the
clear
     solution treated with 80 g. PhOH in 60 ml. Et20 and with 80 ml. MeOH, the
     main part of the Et20 evaporated with rise of internal temperature to 60-70°.
     and the cooled mixture filtered yielded 58% III, m. 129.530.5°. III
     (460 mg.) and 0.50 g. norbornene in 4 ml. anhydrous C6H6 treated at
     20° with 1.0 ml. NEt3 and the mixture kept several hrs., filtered
     from Et3NHCl, m. 253-5°, and the filtrate and washings evaporated
     yielded 85% bicyclo[2.2.1]hept-2-ene adduct,
     1,3-diphenyl-4,7-methano-3a,4,5,6,7,7ahexahydroindazole (IV), m.
     171-2° (alc.), λ 244, 370 mμ (log ε 4.14, 4.32),
     strongly blue-green fluorescent in daylight, brown-yellow color in concentrated
     H2SO4 turning dark green in addition of concentrated HNO3. III (500 mg.) and
0.50
     g. norbornene in 5 ml. C6H6 shaken 8 hrs. with 200 mg. KOH in 1.5 ml. H2O
     at 20° yielded 76% IV, also produced in 94% yield by treating III
     and norbornene in boiling C6H6 with Et3N. IV in CHC13 treated with 1.0
     mole-equivalent Br (exothermic reaction) and the cooled mixture washed with KOH
     and H2O, evaporated, and the residue sublimed at 120-40°/ 0.003 mm.
     gave 1-(p-bromophenyl-3-phenyl-4,7-methano3a,4,5,6,7,7a-hexahydroindazole,
    m. 133-4° (alc.), v 800, 825 cm.-1 II (2.0 g.) in 10 ml.
     dicyclopentadiene (V) heated 3 hrs. at 160-5° with liberation of
     9.0 millimoles N and the unchanged V distilled at 10 mm. yielded 68%
     1,3-diphenyl4,8-methano-3a,4,4a,7,8,8a - hexahydroindeno [5,6-c] pyrazole
     (VI), m. 173-4°. III (460 mg.) and 1.2 g. V in 6 ml. C6H6 refluxed
     1 hr. with addition of 1.0 ml. Et3N and the filtered solution evaporated
yielded 87%
     VI, λ 242, 370 mμ (log 4.15, 4.33, CHCl3). VI (3.0 g.) refluxed
     42 hrs. with 3.0 q. chloranil in 20 ml. xylene and the dark brown solution
     extracted repeatedly with 4% KOH, the H2O-washed solution freed from solvent
and
     distilled at 120-65°/0.003 mm., the glassy product crystallized from 60 ml.
     hot alc., and the crystalline material (0.90 g.) sublimed in vacuo gave
     non-fluorescent 1,3-diphenyl4,8 - methano - 4,4a,7a,8 -
     tetrahydroindeno[5,6 - c]pyrazole (VII), m. 124.0-4.5°. VI (653
     mg.) heated 3 hrs. at 200-55° with 90 mg. S with evolution of H2S
    and the product sublimed at 120-70°/0.01 mm. yielded 48%
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1,3-diphenylpyrazole, m. 84-5° (petr. ether). III (460 mg.) and 2.25 g. bicycloheptadiene in 7 ml. C6H6 heated 3 hrs. at 65° with

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1.0 ml. Et3N and kept 16 hrs. at 20°, the mixture filtered from 1.97
millimoles Et3NHCl and the filtrate evaporated, the residue boiled in 50 ml.
alc. and filtered from 27 mg. insol. product, the solution cooled, and the
crystalline material (79%) recrystd. from ligroine (b. 80-120°) yielded
1,3-diphenyl4,7-methano-3a,4,7,7a-tetrahydroindazole (VIII), m.
133-5° (decomposition), λ 243, 369 mμ (log ε 4.13,
4.30). The insol. product recovered from HCONMe3 gave bright greenish
vellow amorphous 1,3,5,7-tetraphenvl-4,8-methano-3a,4,-
4a,7a,8,8a-hexahydropyrazolo[4,5-f]indazole, m. above 320°
(decomposition), \lambda 244, 359, m\mu (log \epsilon 4.39, 4.52). VIII
(2.29 g.) heated slowly from 130 to 185° several min. with vigorous
evolution of gas through a trap at -78°, condensing 77%
cyclopentadiene (identified as maleic anhydride adduct, m.
165.0-5.5°), and the residue distilled at 135-50°/0.003 mm.
yielded 98% 1,3-diphenylpyrazole. III (2.00 millimoles) and 4.0
millimoles endo-cis-bicyclo[2.2.1]hept-5-ene-2,3dicarboxylic acid
anhydride refluxed 1 hr. in 4 ml. C6H6 with dropwise addition of 1.0 ml. Et3N
in 2 ml. C6H6 and the mixture refluxed 1 hr., filtered from Et3NHCl, and the
residue on evaporation recrystd. from EtOAc gave 55% pale green
1,3diphenvl-4,7-methano-3a,4,5,6,7,7a-hexahvdroindazole-5,6dicarboxvlic
acid anhydride, m. 279-81° (decomposition). The dipolarophilic activity
of normal unconjugated double bonds is relatively small as shown by a
comparative study of the addition of I to non-conjugated alkenes,
diphenylketene, and ketene acetal. III (3.98 millimoles), 21.5 millimoles
C5HnCH:CH2, and 1.5 ml. Et3N heated 30 hrs. at 80-90° in a sealed
tube and the filtered solution evaporated, the residue distilled at
160-80°/0.001 mm. and the yellow oil crystallized from MeOH yielded 85%
1,3-diphenyl-5-pentyl-A2-pyrazoline, m. 56-8° (MeOH),
dehydrated (0.75 millimole) by refluxing 2 hrs. with 1.5 millimoles
chloranil in 25 ml. xylene, the pale yellow oily
1,3-diphenyl-5-pentylpyrazole oxidized 80 min. in boiling 50% C6H5N with 2
g. KMnO4, washed with Et2O and filtered from MnO2, treated with Na2SO3 and
acidified to yield 0.13 g. 1,3-diphenyl-5-pyrazolecarboxylic acid (IX), m.
225-60° (H2O). Ill (3.98 millimoles) similarly treated with 16.5
millimoles H2C:CH(CH2)8CO2Et and the product distilled at
200-30°/0.003 mm. gave 80% material, recrystd. from MeOH to yield
yellow needles of Et 9-(1,3-diphenyl-Δ2-pyrazolin-5-
v1)nonanecarboxylate, m. 40-2°. III with 3 mole-equivs. unsatd.
ester in boiling C6H6 and the product distilled vielded also 28%
tetraphenyldihydrotetrazine, m. 200-3°, produced by head-to-tail
dimerization of I and showing the lacking activity of the dipolarophile.
III (1.99 millimoles), 11.3 millimoles cyclopentene and Et3N refluxed 150
min. in 5 ml. C6H6 and the mixture kept 16 hrs., the residue on evaporation of
the filtrate sublimed in a high vacuum, and the sublimate recrystd. from
alc. vielded 78% 1,3-diphenvl-cis-1,3a,4,5,6,6a-
hexahydrocyclopentapyrazole (X), m. 137.5-9.0°, \(\lambda\) 241,365
mμ (log ε 4.12, 4.31, CHCl3), with blue-green fluorescence.
III (2.00 millimoles), 0.7 q. Ph2C:CO refluxed with Et3N in C6H6 and the
filtered solution evaporated, the residue distilled at 150-220°/0.001 mm. and
the red oil (1.06 g.) recrystd from alc. gave 0.19 g.
1,3,4,4-tetrapheny1-Δ2-pyrazo1-5-one, m. 160-2°, v 1712
cm.-1 III (2.00 millimoles) and 7.6 millimoles H2C:C(OEt)2 refluxed with
Et3N in C6H6 without separation of Et3NHCl, the filtered solution evaporated,
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residue distilled at $160-70^{\circ}/0.004$ mm., the red oil (0.50~g.) chromatographed in C6H6 over Al2O3 (Merck, activity I), and the eluate crystallized from 90% alc. gave 0.42~g. 1,3-diphenyl-5-ethoxypyrazole, m.

t.he

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67-9^{\circ}, \lambda 275 m\mu (log \epsilon 4.36). The pyrazole (0.53
     g.) refluxed 9 days in 5 ml. alc. and 7 ml. concentrated HCl, the cooled
mixture
     neutralized with NaOH and extracted with CH2Cl2, the product distilled in a
high
     vacuum, and the distillate recrystd. from alc. and ligroine (b.
     80-110°) vielded 75% 1,3-diphenvl-A2-pvrazol-5-one, m.
     136.0-7.5°, 1708 cm.-1 The orientation in the addition of I to Ph2C:
     CO and to H2C:C(OEt)2 is that to be expected in regarding PhC+: N-N-Ph as
     a representation of I. III (2.31 q.) and 2.5 1. butadiene in 40 ml. C6H6
     shaken 4 hrs. with 3 ml. Et3N under pressure and kept several days, the
     blue fluorescent mixture filtered, and the residue on evaporation recrystd.
from
     alc. gave 2.34 g. crystalline 1,3-diphenyl-5-vinyl-A2-pyrazoline (XI), m.
     76.0-7.5°, b0.001 130-40°. XI (4.0 millimoles) refluxed 10
     hrs. with 4.7 millimoles chloranil in 10 ml. xylene and filtered from 2.9
     millimoles tetrachlorohydroquinone, the filtrate extracted with alkali, and
     the washed solution evaporated gave 0.87 g. noncryst. viscous oil, distilled at
     158-80°/0.001 mm. The oil (0.61 q.) in 45 ml. Me2CO stirred 2 hrs.
     with gradual addition of 1.25 g. KMnO4 and kept 30 min, before reduction with
502
     and extraction with CH2C12, the residue on evaporation crystallized from CC14
and MeOH.
     and the product (0.41 g.), m. 227.08.5° (decomposition), recrystd. gave
     IX. PhCH:CHCOCH2CO2Et and PhNHNH2 gave the known Et
     1,3-diphenyl-5-methyl-4-pyrazolinecarboxylate (XII), dehydrogenated with
     chloranil in xylene to Et 1,3-diphenyl-5-methyl-4-pyrazolecarboxylate and
     saponified by alkali and decarboxylated to 1,3-diphenyl-5-methylpyrazole, m.
     46-7° (Et20-petr. ether), refluxed (2.0 g.) 2 hrs. with 6 g. KMnO4
     in 100 ml. 1:1 stabilized Me2CO-H2O, the filtered solution acidified with 2N
     HCl, and the product recrystd. from MeOH gave 31% starting material and
     24% IX, m. 228-9° (decomposition), neutralization equivalent 261. III (1.99
     millimoles) and 3.0 millimoles cyclopentadiene kept 20 hrs. with NEt3 in
     C6H6 and the product purified by crystallization from alc. and sublimation in a
     high vacuum gave 0.30 g. 1,3-diphenyl-cis-1,3a,4,6a-
     tetrahydrocyclopentapyrazole, m. 183-4°, λ 242, 367 mμ
     (log & 4.11, 4.31, CHCl3), oxidized with KMnO4 in Me2CO at
     20° to give 1,3-diphenyl-4-pyrazolecarboxylic acid and BzOH,
     brominated with 1.0 molar equivalent Br in C6H6 to
     1-(4-bromophenyl)-3-phenyl-cis-1,3a,4,6a-tetrahydrocyclopentapyrazole, m.
     148-50° (alc.), v 820 cm.-1 and hydrogenated (300 mg.) in 80 ml.
     EtOAc at 20° in 50 min. with Raney Ni to give 0.29 g.X. III
     treated with 5 molar equivs. cyclohexa-1,3-diene in C6H6 in the presence
     of Et3N yielded 73% 1,3-diphenyl-3a,4,5,7a-tetrahydro-indazole, b0.005
     150-60°, m. 119.5-21.0° (alc.), dehydrogen ated with
     chloranil in boiling xylene 18 hrs., the product distilled in a high vacuum
     and crystallized from MeOH yielded 79% 1,3-diphenylindazole, m.
     100.5-2.0^{\circ}. III (1.99 millimoles) and 0.91 g. freshly distilled styrene kept 2 hrs. at 60^{\circ} with Et3N and some hydroquinone in C6H6
     and the product recrystd, from MeOH yielded 88%
     1,3,5-triphenyl-Δ2pyrazoline, m. 137-8°, λ 240, 361
     mµ (log \varepsilon 4.20, 4.28). II (2.0 g.) heated 3 hrs. at 155-65° in 5 ml. 1,2-dihydronaphthalene with loss of 0.98 molar
     equivalent N, the excess d dihydronaphthalene evapd, i@ vacuo, and the residue
     crystallized from MeOH yielded 2.44 g. material, m. 133-48°. Treatment
     of 3.5 molar equivs. dihydronaphthalene with III in C6H6 in the presence
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of NEt3 yielded 75% product, recrystd. 4 times from alc. to give

1,3-dipheny1-3a,4,5,9b-tetrahydronaphtho[1,2-c]pyrazole, m. 151-2°, dehydrogenated with chloranil in C6H3Cl3 52 hrs. at 170°, the product distilled in a high vacuum and triturated with petr. ether yielded 70% 1,3-diphenylnaphtho[1,2-c]pyrazole (XIII), m. 100.5-2.0° (petr. ether, alc.). PhNHNH2 (1.2 ml.) and 2.48 g. 2,1BzC10H6OH heated (N atmospheric) 16 hrs. at 150° in 5 ml. EtOCH2CH2OH containing 20 mg. p-MeC6H4SO3H, the mixture stirred into H2O and the red-brown product recrystd. from alc. vielded 72% phenyl 1-hydroxy-2-naphthyl ketone phenylhydrazone (XIV), b0.001 220-30°, m. 130.0-1.5°. XI (1.02 g.) kept 2 hrs. at 95° in 70 ml. polyphosphone acid and the solution poured into 200 ml. ice H2O, the yellow precipitate distilled at 210-30°/0.001 mm., and the distillate chromatographed from C6H6 on Al2O3 (Woelm, acid, activity I) gave 0.56 g. XIII. Treatment of 117 with 3.5 mole-equivs. indene in C6H6 in the presence of NEt3 and the product sublimed at 140-70°/0.004 ml. gave 482 mg. 1,3-diphenyl-3a,8b-dihydro-4H-indeno[1,2-c]pyrazole, m. 171-2°, λ 239, 364 mμ (log ε 4.15, 4.28). Similarly 2.8 mole-equivs. transstilbene in C6H6 yielded 86% 1,3,4,5tetraphenyl-4,5-trans-dihydropyrazole, m. 166.5-8.0°(alc.), refluxed 50 hrs. in xylene with chloranil, the dehydrogenation product distilled in vacuo and recrystd. from C6H12 gave 1,3,4,5-tetraphenylpyrazole (XV), m. 217-19°. III (4.0 millimoles) heated 3 days at 50° with 3.6 g. cisstilbene in a sealed tube and the adduct (53%) crystallized from CH2C12alc. gave greenish yellow needles of 1,3,4,5-tetraphenyl 4,5-cis-dihydropyrazole, m. 194.5-5.5°, taken up (110 mg.) in 5 ml. boiling Me2CO and treated gradually with 60 mg. KMnO4 in 20 ml. Me2CO, reduced with SO2, and the Me2CO evaporated to give 108 mg. XV. III (2.0 millimoles) in C6H6 treated with 6.0 millimoles acenaphthylene in the presence of Et3N 1 hr. at 80° and 7 hrs. at 20°, filtered from Et3N-HCl, and the product (90%) recrystd. from PhMe gave 7,9diphenyl - 6b,9a - dihydroacenaphtho[1,2 - c] pyrazole, m. 255.5-7.5° (decomposition). Dibenzo[b,f]azepine (1.20 g.) refluxed 2.5 hrs. in 10 ml. C6H6 with 1.43 g. III and 4.3 ml. NEt3 and the precipitate washed free from NEt3HCl with H2O yielded 55% material, recrystd. repeatedly from xylene to give 1,3-diphenyldibenzo [b,f] pyrazolo [3,4-d] azepiue, m. 264.0-5.5°, λ 302, 361 mμ (log ε 4.07, 4.14), v 3335 cm.-1 Ill treated by the usual procedure with 3 mole-equivs. H2C:CHCO2Et 45 min. at 20% gave 85% Et 1,3-diphenvlA2-pvrazoline-5-carboxvlate, m. 99-101° (MeOH), dehydrogenated with chloranil in boiling xylene to yield 94% Et 1,3-diphenyl-5-pyrazolecarboxylate, m. 84.5-6.0°, hydrolyzed with KOH in MeOH to IX. Similar reaction with 7 mole-equivs. H2C:CHCN 30 min. at 20° yielded 85% 1,3-diphenyl-5-cyano-Δ2-pyrazoline, m. 138-40°, aromatized by refluxing 2 hrs. in xylene with chloranil to give 76% 1,3-diphenvl-5-cvanopyrazole, m. 133-5°, v 2240 cm.-1, hydrolyzed by 2 hrs. reflux in 1:1:1 H2SO4-AcOH-H2O to yield IX. II (2.0 g.) heated 8 hrs. at 155-65° in 7 ml. PhCH:CHCO2Et with liberation of 97% N, the excess ester evaporated, and the residue crystallized from alc. yielded 2.86 g. isomeric mixture, m. 113-16°. The mixture (2.0 g.) refluxed 20 hrs. in 10 ml. xylene with 5.7 millimoles chloranil and the product, m. 127-33°, recrystd. twice from alc. yielded 50% Et 1,3,5-triphenyl-4-pyrazolecarboxylate, m. 142-5°. Treatment of HI with 2 mole-equivs. PhCH:CHCO2Et in boiling C6H6 with NEt3 yielded 83% isomeric mixture, m. 116-23°. The direction of the addition seemed to be influenced more strongly by steric than by electronic factors. II (1.0 g.) heated 2 hrs. at 160-70° in 5 ml. MeCOCH2CO2Et with evolution

of 104% N and the residue distilled at 170-80°/ 0.01 mm. yielded 67%

rapidly solidifying oil, recrystd. from C6H12-Et2O to give XII, also obtained in 19% vield by thermolysis of II in EtOCH:CHCO2Et, and in 62% yield by decomposition of II in AcOCH: CHCO2Et. Hydrolysis of XII with 12% KOH in MeOH gave 1,3-diphenyl-5-methyl-4pyrazolecarboxylic acid, m. 193-4° (alc.). II (9.0 millimoles) and 6 g. maleic anhydride heated 5 hrs. in 20 ml. MeOPh at 155° and the product recrystd. from C6H6 gave 1.21 g. 1,3-diphenvl-Δ2-pyrazoline-cis-4,5-dicarboxylic anhydride (XVI), m. 191)-2° (decomposition) (determination made in preheated bath at 180°). Decomposition of II at 160-70° caused decomposition of XVI in 3 hrs. with formation of 35% 1,3-diphenylpyrazolc. II (9.0 millimoles) heated in 5 g. trans-MeO2CCH:CHCO2Me with evolution of 0.94 moleequiv. N yielded 88% di-Me 1,3-diphcnyl-Δ2-pyrazolinetrans-4,5dicarboxylate (XVII), m. 148-50° (alc.), also prepared in 99% yield by treatment with III in C6H6 with NEt3. XVI taken up in hot aqueous Na2CO3 and the dicarboxylic acid esterified with CH2N2 gave XVII. XVII (1.5 g.) refluxed 20 hrs. in xylene with 6.1 millimoles chloranil and the product crystallized from alc. gave 1.17 g. di-Me 1,3-diphenylpyrazole-4,5-dicarboxylate (XVIII), m. 151.2°. II (9.0 millimoles) in 5 g. cis-MeO2CCH: CHCO2Me heated, the excess ester distilled, and the residue fractionated from alc. vielded 51% XVII and 4% di-Mc 1,3-dil)henvl-A2-pvrazolinecis-4,5-dicarboxvlate, m. 141-3°, also produced in 72% yield by keeping XVI 3 days in dilute Me2CO and esterifying the product with CH2N2. II (9.0 millimoles) refluxed 6 hrs. in 20 ml. MeOPh containing 5.0) g. di-Mc malcic anhydride with evolution of 255 ml. N, the solvent and excess dipolarophile distilled, and the residue extracted with Et20 gave 1.58 g. residue, recrystd. repeatedly from C6H12 to give 1,3diphenyl-4,5-dimethyl-A2-pyrazoline-cis-4,5-dicarboxylic anhydride, m. 138-4°. III (3.98 millimoles), 2.9 g. trans-MeO2CMe: CMeCO2Me, and 1.5 ml. NEt3 heated 2 days at 50° in a sealed tube and the product crystallized from MeOH yielded 74% di-Me 1,3-diphenyl-4,5-dimethyl-A2-pyrazoline- trans-4,5-dicarboxylate, m. 107.5-8.5°. Similarly III and 5 mole-equivs. cis-MeO2CCMe:CMeCO2Me gave 33% di-Me 1,3-diphenyl-4,5-dimethyl-Δ2-pyrazoline-cis-4,5dicarboxylate, m. 144-5°, also obtained from the cis-anhydride in 67% yield. II (9.0 millimoles) and 3 g. α -naphthoguinone heated 2 hrs. at 160-70°, the residue digested with Et20 and crystallized from CHC13 yielded 85% 1,3-diphenyl-4,9-dioxo-4,9-dihydronaphtho[2,3c]pyrazole, m. 257-9°. II (2.25 millimoles) refluxed 3 hrs. in 5 ml. MeOPh with 0.6 g. 2-methyl- α -naphthoquinone gave 0.27 g. 1,3-diphenvl-9a-methyl- 4,9 - dioxo-33,4,9,9atetrahydronaphtho[2,3-c]pyrazole, m. 245-7° (CHCl3), v 1780 cm.-1 The reciprocal action of I with the CC triple bond led directly to aromatic pyrazole systems. III (1.30 millimoles) in 3 ml. PhC:CH heated on a steam bath with dropwise addition of 1.0 ml. NEt3, kept 1.5 hrs., the cooled mixture filtered from 95% Et3NHCl, the filtrate distilled at 130-50°/0.003 mm., the red oil chromatographed on basic Al203, eluted with C6H6, and the middle fraction recrystd. from MeOH yielded 72% 1,3,5-triphenylpyrazole (XVIII), m. 138.5-9.5°. II (9.0 millimoles) heated 6 hrs. at 155-65° with PhC:CPh with liberation of 235 ml. N gave 34% XIV, obtained only in 2.6% yield by treatment with III in C6H6 in the presence of Et3M. II (9.0 millimoles) heated in 5 ml. HC:CCH(OPr)2 and the product distilled at 190-205°/0.001 mm. gave 2.82 g. oily 1,3-diphenylpyrazole-5-aldehyde dipropyl acetal, hydrolyzed 48 hrs. at 20° in 20 ml. dioxane and 10 ml. 50% HCl to yield 79% 1,3-diphenyl-5-pyrazolecarboxaldehyde, m. 138-40°; 2,4-dinitrophenylhydrazone m. 260° (dccompn.). The aldehyde refluxed 2 hrs. in MeOCH2CH2OH with moist Ag20 and the neutral and acidic

products gave 35% IX. III with 2.5 mole-equivs. HC:CCO2Me gave 71% Me 1,3-dipheny1-5-pyrazolecarboxylate, m. 111.512.5° (MeOH), hydrolyzed quant. with KOH in MeOH to IX.

II (5.4 millimoles) decomposed in 4 g. PhC:CCO2Et yielded 84% di-Et 1,3,5-triphenyl-4-pyrazolecarboxylate, m. 144-5° (alc.), sapponified with KOH in MeOH to 90% 1,3,5-triphenyl-4-pyrazolecarboxylic acid, m. 239-41° (decomposition) decarboxylated at 245° to XVIII. II (9.0 millimoles) and 5 ml. Me2O2CC:CCO2Me heated and the product distilled at 210-30°/0.001 mm. yielded 55% di-Me 1,3-diphenylpyrazole-4,5-dicarboxylate, m. 153-4°, saponified to the

dicarboxylic acid, m. 198-200° (decomposition), neutralization equivalent 170, decarboxylated by heating 30 min. at 200° to give 1,3-diphenylpyrazole-4-carboxylic acid, m. 201-3°, neutralization equivalent 270°. Proof of cis addition and determination of the orientation

rules represent contributions to the mechanism of 1,3-dipolar addition

85008-87-3P
RI: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(1,3-Dipolar addition. I. Diphenylnitrilimine and its 1,3-dipolar
additions to alkenes and alkynes)

RN 85008-87-3 CAPLUS

CN Dibenzo[b,f]pyrazolo[3,4-d]azepine, 1,8-dihydro-1,3-diphenyl- (CA INDEX NAME)

OS.CITING REF COUNT:

106 THERE ARE 106 CAPLUS RECORDS THAT CITE THIS RECORD (107 CITINGS)

L10 ANSWER 123 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 1139-56-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN Furo[2,3-d]pyrrolo[3,2,1-jk][1]benzazepine (8CI, 9CI) (CA INDEX NAME)

MF C14 H9 N O

CI RPS

L10 ANSWER 122 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 7486-12-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN Pyrrolo[3',4':3,4]cyclobut[1,2-d]imidazole (8CI, 9CI) (CA INDEX NAME)

MF C7 H3 N3

CI RPS

L10 ANSWER 121 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 80294-50-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN Oxazolo[5,4-d][1,4]thiazino[2,3,4-jk][1]benzazepine (9CI) (CA INDEX NAME)

MF C13 H8 N2 O S

CI RPS

L10 ANSWER 120 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 80294-51-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN [1,4]Thiazino[2,3,4-jk]thiazolo[5,4-d][1]benzazepine (9CI) (CA INDEX

NAME)

MF C13 H8 N2 S2

CI RPS

L10 ANSWER 119 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 87041-36-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN 3,8-Methano-8H-dibenz[b,f]isoxazolo[4,5-d]azepine (9CI) (CA INDEX NAME)

MF C16 H10 N2 O

CI RPS

L10 ANSWER 116 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 93281-43-7 REGISTRY

ED Entered STN: 18 Dec 1984

CN 1H-[1]Benzothieno[5,6-b]azirine (9CI) (CA INDEX NAME)

MF C8 H5 N S

CI RPS

L10 ANSWER 117 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 88084-57-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Azirino[2,3,1-hi]thiazolo[5,4-e]indole (9CI) (CA INDEX NAME)

MF C9 H4 N2 S

CI RPS

L10 ANSWER 118 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 87208-25-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN 4,9-Methano-4H-pyrrolo[1,2-a]thieno[3,2-d]azepine (9CI) (CA INDEX NAME)

MF C12 H9 N S

CI RPS

CA

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L10 ANSWER 113 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN
RN
    147184-23-4 REGISTRY
ED
    Entered STN: 23 Apr 1993
CN
    10H-Imidazo[1,2-a]thieno[3,2-d]azepine,
    10-[1-[2-(4-methoxyphenyl)ethyl]-4-piperidinylidene]- (CA INDEX NAME)
MF
    C24 H25 N3 O S
CI
    COM
SR
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L10 ANSWER 114 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 146340-64-9 REGISTRY

ED Entered STN: 09 Mar 1993

CN 4,7:14,17-Diimino-2,22-metheno-9,12-nitriloazepino[4,3-b]azacyclononadecine (9CI) (CA INDEX NAME)

MF C23 H15 N5

CI RPS

SR CA Index Guide or Ring Systems Handbook

L10 ANSWER 115 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 93281-55-1 REGISTRY

ED Entered STN: 18 Dec 1984

CN 2,6-Methano-1H-[1]benzothieno[5,6-b]azirine (9CI) (CA INDEX NAME)

MF C9 H5 N S

CI RPS

L10 ANSWER 109 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 264151-37-3 REGISTRY

ED Entered STN: 09 May 2000

CN 4,9-Imino-1H-naphtho[2',3':3,4]cyclobuta[1,2-d][1,2,3]triazole (9CI) (CA INDEX NAME)

MF C12 H6 N4

CI RPS

SR CA Index Guide or Ring Systems Handbook

- L10 ANSWER 110 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 188965-71-1 REGISTRY
- ED Entered STN: 13 May 1997
- CN 4H-Pyrrolo[1,2-a]thieno[3,2-d]azepine (9CI) (CA INDEX NAME)
- MF C11 H9 N S CI RPS
- SR CA Index Guide or Ring Systems Handbook



L10 ANSWER 111 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 179528-39-3 REGISTRY

ED Entered STN: 14 Aug 1996

CN Benzamide, N-[1,1'-biphenyl]-2-y1-4-[(4,5-dihydro-2-methylimidazo[4,5-

d][1]benzazepin-6(1H)-yl)carbonyl]- (CA INDEX NAME)

MF C32 H26 N4 O2

SR CA LC STN Files: USPATFULL

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L10 ANSWER 112 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 147210-28-4 REGISTRY

ED Entered STN: 27 Apr 1993

CN 5H-Thiazolo[3,2-a]pyrimidin-5-one, 6-[2-[4-(10H-imidazo[1,2-a]thieno[3,2-d]azepin-10-ylidene)-1piperidinyl|ethyl|-7-methyl- (CA INDEX NAME)

OTHER CA INDEX NAMES:

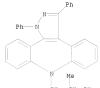
10H-Imidazo[1,2-a]thieno[3,2-d]azepine, 5H-thiazolo[3,2-a]pyrimidin-5-one deriv.

MF C24 H23 N5 O S2

COM SR CA

- L10 ANSWER 105 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 344881-07-8 REGISTRY
- ED Entered STN: 08 Jul 2001
- CN Dibenzo[b,f]pyrazolo[4,3-d]azepine-8(1H)-ethanamine, N,N-dimethyl-1,3-diphenyl- (CA INDEX NAME)
- OTHER CA INDEX NAMES:
- CN Dibenzo[b,f]pyrazolo[3,4-d]azepine-8(1H)-ethanamine, N,N-dimethyl-1,3-diphenyl- (9CI)
- MF C31 H28 N4
- CI COM
- SR Reaction Database

- L10 ANSWER 106 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 344766-72-9 REGISTRY
- ED Entered STN: 06 Jul 2001
- CN Dibenzo[b,f]pyrazolo[4,3-d]azepine-8(1H)-propanamine,
 N,N,β-trimethyl-1,3-diphenyl- (CA INDEX NAME)
- OTHER CA INDEX NAMES:
 CN Dibenzo(b,f]pyrazolo[3,4-d]azepine-8(1H)-propanamine,
 N,N,β-trimethyl-1,3-diphenyl- (9CI)
- MF C33 H32 N4
 - CI COM
- SR Reaction Database



CH2-CH-CH2-NMe2

- L10 ANSWER 107 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 341496-75-1 REGISTRY
- ED Entered STN: 15 Jun 2001
- CN 5H-Pyrano[3',2':2,3]azepino[4,5-b]indole-5-carboxamide, 2,3,4,6,7,12-hexahydro- (CA INDEX NAME)
- 2,3,4,6,7,12-nexanydro- (CA INI MF C16 H17 N3 O2
- SR Reaction Database

- L10 ANSWER 108 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 279253-81-5 REGISTRY
- ED Entered STN: 21 Jul 2000
- CN Spiro[cyclohexane-1,10'-[10H]imidazo[1,2-a]thieno[3,2-d]azepine] (9CI)
- (CA INDEX NAME) MF C15 H16 N2 S
- MF C15 H16 N2 S CI COM, RPS
- SR CA
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L10 ANSWER 100 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 707539-73-9 REGISTRY

ED Entered STN: 09 Jul 2004

CN Methanone, (4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)(2'methoxy[1,1'-biphenyl]-4-yl)- (CA INDEX NAME) OTHER CA INDEX NAMES:

Imidazo[4,5-d][1]benzazepine, 1,4,5,6-tetrahydro-6-[(2'-methoxy[1,1'-CN biphenyl]-4-yl)carbonyl]-2-methyl- (9CI)

MF C26 H23 N3 O2

COM

SR CA

CI COM SR CA

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L10 ANSWER 101 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

703401-73-4 REGISTRY

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L10 ANSWER 102 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 701193-15-9 REGISTRY

ED Entered STN: 29 Jun 2004

CN 8H-Dibenz[b,f]isoxazolo[5,4-d]azepine-8-propanamine, N,N,β-trimethyl-3-phenyl- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 8H-Dibenz[b,f]isoxazolo[4,5-d]azepine-8-propanamine, N,N,β-trimethyl-3-phenyl- (9CI)

MF C27 H27 N3 O

CI COM

SR CA

CH2-CH-CH2-NMe2

L10 ANSWER 103 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 699532-52-0 REGISTRY

ED Entered STN: 25 Jun 2004

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(2-cyclopropyl-4,5-dihydroimidazo[4,5-

d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

MF C34 H28 N4 O2

CI COM SR CA

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- L10 ANSWER 104 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 344882-40-2 REGISTRY
- ED Entered STN: 08 Jul 2001
- CN Dibenzo[b,f]pyrazolo[4,3-d]azepine-8(1H)-propanamine, N,N-dimethyl-1,3-diphenyl- (CA INDEX NAME)
- OTHER CA INDEX NAMES:
- CN Dibenzo[b,f]pyrazolo[3,4-d]azepine-8(1H)-propanamine, N,N-dimethyl-1,3-diphenyl- (9CI)
- MF C32 H30 N4
- CI COM
- SR Reaction Database

L10 ANSWER 98 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN

RN 724698-06-0 REGISTRY

ED Entered STN: 09 Aug 2004

CN Benzamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)yl)carbonyl]phenyl]-2-ethoxy- (CA INDEX NAME)

C28 H26 N4 O3 MF

CI COM CA

SR

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- L10 ANSWER 99 OF 123 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 719305-66-5 REGISTRY
- ED Entered STN: 30 Jul 2004
- CN 4H-Imidazo[1,2-a]oxazolo[4,5-d]azepine (9CI) (CA INDEX NAME)
- MF C9 H7 N3 O CI RPS
- SR CA Index Guide or Ring Systems Handbook

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           3421 S 2436.13/RID
L8
           1182 S L5 AND L7
L9
           1811 S L6 AND CAPLUS/LC
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           123 S L6 NOT L9
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             8 S L31 NOT (2010/SO OR 2009/SO OR 2008/SO OR 2007/SO OR 2006/SO
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L32 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1448448 CAPLUS

DOCUMENT NUMBER: 149:570726

TITLE: Methods for using vasopressin antagonists with anthracycline chemotherapy agents to reduce

cardiotoxicity and/or improve survival INVENTOR(S): Liu, Yongqe; Kambayashi, Junichi

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 47pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

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	WO 2008144269							WO 2008-US63374						20080512					
	WO 2008144269			A3 201001			0121												
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			KG,	KM,	KN,	KP,	KR,	KZ,	LA,	LC,	LK	, LR,	LS,	LT,	LU,	LY,	MA,	MD,	
			ME,	MG,	MK,	MN,	MW,	MX,	MY,	MZ,	NA	, NG,	NI,	NO,	NZ,	OM,	PG,	PH,	
			PL,	PT,	RO,	RS,	RU,	SC,	SD,	SE,	SG	, SK,	SL,	SM,	SV,	SY,	TJ,	TM,	
			TN,	TR.	TT,	TZ,	UA,	UG,	US.	UZ,	VC	, VN,	ZA,	ZM,	ZW				
		RW:	AT.	BE.	BG.	CH.	CY.	CZ.	DE.	DK.	EE	. ES.	FI.	FR.	GB,	GR,	HR,	HU,	
			IE,	IS,	IT,	LT,	LU,	LV,	MC,	MT,	NL	, NO,	PL,	PT,	RO,	SE,	SI,	SK,	
												, GO,							
			TG.	BW.	GH.	GM.	KE.	LS.	MW.	MZ.	NA	, SD,	SL,	SZ.	TZ.	UG,	ZM.	ZW.	
												, AP,						,	
	AU 2008254273				A1 20081127				AU 2008-254273						2	0080	512		
										CA 2008-2685186					20080512				
	EP	2146	721							EP 2008-755284									
		R:	AT.	BE.	BG.	CH.	CY.	CZ.	DE.	DK.	EE	, ES,	FI.	FR.	GB.	GR.	HR.	HU.	
												NL.							
			SK.	TR.	AL.	BA,	MK.	RS								,		,	
	KR	2010							0218		KR	2009-	7235	86		2	0080	512	
		6654	4			A1		2009	0826		AR	2008-	1020	15		2	0080	513	
	MX	2009	0121	64		A		2009	1209		MX	2009-	1216	4		2	0091	110	
								2010	0818		CN	2008-	8001	5930		2	0091	113	
		2009										2009-					0091		
PRIO		APP									US 2007-938089P								
											WO	2008-	JS63	374		W 2	0080	512	

OTHER SOURCE(S):

- AB The invention discloses methods for reducing cardiotoxicity and/or improving survival from treatment with anthracycline agents comprising administering a therapeutically effective amount of a composition comprising a vasopressin antagonist compound or a pharmaceutically acceptable salt thereof as an active ingredient, administered simultaneously or prior to
- IT 168626-94-6, Conivaptan hydrochloride 210101-16-9, Conivaptan 210101-16-9D, Conivaptan, salts

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

MARPAT 149:570726

(Biological study); USES (Uses)

the anthracycline administration.

(vasopressin antagonists with anthracycline chemotherapy agents to reduce cardiotoxicity and/or improve survival)

- RN 168626-94-6 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzaepin-6(1H)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 1-A

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HC1

- RN 210101-16-9 CAPLUS
- CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

RN 210101-16-9 CAPLUS

[1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

CN

PAGE 2-A

L32 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1099903 CAPLUS

DOCUMENT NUMBER: 149:347494

TITLE: Method for reducing infarction using vasopressin

antagonist compounds, and compositions and

combinations therefor
INVENTOR(S): Liu, Yongge; Kambayashi, Junichi; Fujiki, Hirovuki;

Mori, Toyoki

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 16pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20080221084	A1	20080911	US 2007-927153	20071029
PRIORITY APPLN. INFO.:			US 2006-863530P P	20061030
ASSIGNMENT HISTORY FOR	US PATEN	T AVAILABLE	IN LSUS DISPLAY FORMAT	
OWNER CONDOCION	143 DD 3 M	140 247404		

OTHER SOURCE(S): MARPAT 149:347494

AB The invention discloses a method for reducing infarction comprising administering to a patient ion need thereof a therapeutically effective amount of a composition comprising as an active ingredient a vasopressin antagonist compound, as well as a composition useful therefor. The invention also discloses a method for reducing infarction comprising administering to a patient in need thereof a therapeutically effective amount of a combination of a vasopressin antagonist compound and a β -blocker, as well as combinations useful therefor. The methods, compns. and combinations of the invention can be used for reducing infarction in the heart (myocardial infarction) and the brain (stroke). The methods, compns. and combinations of the invention can also be used for the treatment and/or prevention of hypertension, edema, ascites, heart failure, renal function disorder, vasopressin inappropriate secretion syndrome (SIADH), hepatocirrhosis, hyponatremia, hypokalemia, polycystic kidney disease, diabetes, or circulation disorder. 168626-94-6, Conivaptan hydrochloride 210101-16-9,

IT 168626-94-6, Conivaptan hydrochloride 210101-16-9, Conivaptan 210101-16-9D, Conivaptan, salts RL: PAC (Pharmacological activity): THU (Therapeutic use); BIOL

(Biological study); USES (Uses)
(vasopressin antagonist compds., compns., and combinations for reducing

(vasopressin antagonist compds., compns., and combinations for reducing infarction)

RN 168626-94-6 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A



RN 210101-16-9 CAPLUS
CN [1,1"-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1])benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

RN 210101-16-9 CAPLUS

[1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

CN

PAGE 2-A

L32 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:395085 CAPLUS

DOCUMENT NUMBER: 142:423900

TITLE: Combinations of cyclooxygenase (COX) inhibitors and vasopressin receptor antagonists for the treatment of

Barker, Laura Daisy; Russell, Rachel Jane; Van der INVENTOR(S): Graaf, Pieter Hadewijn; Wayman, Christopher Peter

PATENT ASSIGNEE(S): Pfizer Limited, UK; Pfizer Inc.

SOURCE: PCT Int. Appl., 65 pp.

CODEN: PIXXD2 Patent

DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PA	PATENT NO.					KIND DATE				APPLICATION NO.						DATE			
WO	WO 2005039565			A1		20050506			WO 2004-IB3386						20041014				
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,		
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,		
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	ΚZ,	LC,		
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,		
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,		
		ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW		
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,		
		AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,		
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,		
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,		
		SN,	TD,	TG															
A D	AD 46010			7.1	31 20060104				ND 2004-103890						20041026				

PRIORITY APPLN. INFO.:

A1 20060104

GB 2003-25021 A 20031027 AB The invention describes the use of a combination of (A) a vasopressin receptor family antagonist, or a pharmaceutically acceptable derivative

thereof; and (B) a COX inhibitor, or a pharmaceutically acceptable derivative thereof, for the treatment or prophylaxis of dysmenorrhea. Preparation of celecoxib is also described.

168626-94-6, YM 087 210101-16-9, Conivaptan

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(cyclooxygenase inhibitor-vasopressin receptor antagonist combination for treatment of dysmenorrhea)

RN 168626-94-6 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5d|[1]benzazepin-6(1H)-vl)carbonvl]phenvl]-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A



RN 210101-16-9 CAPLUS
CN [1,1"-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1])benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:861136 CAPLUS

DOCUMENT NUMBER: 140:59574

TITLE: Practical Synthesis of

N-{4-[(2-Methyl-4,5-dihydroimidazo[4,5-d][1]benzazepin-6(1H)-v1)carbony1]pheny1}bipheny1-2-carboxamide

Monohydrochloride: an Arginine Vasopressin Antagonist AUTHOR(S): Tsunoda, Takashi; Yamazaki, Atsuki; Iwamoto, Hidenori;

Sakamoto, Shuichi

CORPORATE SOURCE: Chemical Technology Labs, Yamanouchi Pharmaceutical Co., Ltd., Takahagi-shi, Ibaraki, 318-0001, Japan Organic Process Research & Development (2003), 7(6),

SOURCE: 883-887

CODEN: OPRDFK; ISSN: 1083-6160

PUBLISHER . American Chemical Society DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 140:59574

A novel, reliable, and cost-effective synthetic route to

N-[4-[(2-methyl-4,5-dihydroimidazo[4,5-d][1]benzazepin-6(1H)-

v1)carbonv1|phenv1|biphenv1-2-carboxamide monohydrochloride (YM087), a potent arginine vasopressin antagonist, has been developed. Using moisture-controlled potassium carbonate, imidazole formation from

α-bromoketone furnished imidazobenzazepine, avoiding potential oxazole-ring formation. Catalytic reduction of nitro imidazobenzazepine afforded the corresponding amine in high yields. Treatment of the

imidazole-containing amine directly, with a carbonyl chloride, afforded the target amide circumventing protection of the imidazole. 168626-94-6P, N-[4-[(4,5-Dihydro-2-methylimidazo[4,5-

d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-[1,1'-biphenyl]-2-carboxamide

monohydrochloride

RL: SPN (Synthetic preparation); PREP (Preparation)

(YM087; practical synthesis of [[(methylimidazo[4,5d][1]benzazepinyl)carbonyl]phenyl]biphenylcarboxamide monohydrochloride (arginine vasopressin antagonist))

RN 168626-94-6 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5d][1]benzazepin-6(1H)-v1)carbonv1]phenv1]-, hydrochloride (1:1) (CA INDEX NAME)

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HC1

- IT 210101-16-9P, N-[4-[(4,5-Dihydro-2-methylimidazo[4,5
 - d][1]benzazepin-6(1H)-y1)carbony1]pheny1]-[1,1'-Bipheny1]-2-carboxamide RL: SPN (Synthetic preparation); PREP (Preparation)
 - (practical synthesis of [[(methylimidazo[4,5-
 - d][1]benzazepinyl)carbonyl]phenyl]biphenylcarboxamide monohydrochloride (arginine vasopressin antagonist))
- RN 210101-16-9 CAPLUS
- $\hbox{CN} \qquad \hbox{$[1,1'$-Bipheny1]$-2-carboxamide, $N-[4-[(4,5-dihydro-2-methylimidazo[4$
 - d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

6

OS.CITING REF COUNT:

DS.CITING REF COUNT.

REFERENCE COUNT:

- THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
- 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2001:780647 CAPLUS

DOCUMENT NUMBER: 135:335146

TITLE: Time-release coated solid compositions for oral

administration INVENTOR(S):

Sawada, Toyohiro; Sako, Kazuhiro; Yoshioka, Tatsunobu;

Watanabe, Shunsuke

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE WO 2001078686 A1 20011025 WO 2001-JP3229 20010416 M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, EY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GH, HR, HU, ID, IL, IN, IS, JF, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, JJ, TM, TR, TI, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG A1 20020307 US 2001-834410 20010412 US 20020028240 EP 1275381 A1 20030115 EP 2001-921849 20010416 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR , AL, 1K US 2006-463570 20060809 US 2007-841731 20070820 US 2000-198086P P 20000417 21 20010412 US 20060292221 A1 20061228 US 20080199522 A1 20080821 PRIORITY APPLN. INFO.:

US 2006-463570 A1 20060809 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

Disclosed are time-release coated solid compns, which are hydrogel-forming coated solid prepns, composed of a tablet core containing a drug, a hydrogel-forming polymer and a hydrophilic base characterized by (1) the tablet core containing a drug and a highly erodible filler, (2) the erosion ratio of the tablet core ranging from about 40 to about 90, and (3) the outer layer being substantially free from the same drug as the above-described drug. The drug is released after a definite time lag, which enables efficient drug delivery to a specific site in the digestive tract. Therefore, these prepns. are useful in the oral administration of drugs considered as exerting the efficacy when delivered to a disease site in the lower part of the digestive tract at a high concentration, drugs considered as being efficacious when absorbed in the lower part of the digestive tract, drugs being efficacious in time-scheduled drug therapy, etc. A time-release tablet was prepared from

US 2001-834410 WO 2001-JP3229

A1 20010412

W 20010416

4'-[(2-Methyl-1,4,5,6-tetrahydroimidazo[4,5-d][1]benzazepin-6-yl)carbonyl]-2-phenylbenzanilide hydrochloride (I) 1, HPMC2910 3, polysorbate 80 5, malic acid, polyethylene oxide (Polyox WSR303) 62.5, macrogol 6000 187.5 mg. The obtained tablet containing I was administered to a dog with a midazolam soluble The administration of the time-release tablet showed no

effect on the blood concentration of midazolam soluble as compared with the administration of I-containing solution

168626-94-6

RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (time-release coated solid compns. containing drugs, hydrogels and erodible fillers for oral administration)

RN 168626-94-6 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(lH)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

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HC1

IT 210101-16-9

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (time-release coated solid compns. containing drugs, hydrogels and erodible

fillers for oral administration)

RN 210101-16-9 CAPLUS

 $\texttt{CN} \qquad \texttt{[1,1'-Bipheny1]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-dih$

d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 1-A

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9

6

OS.CITING REF COUNT:

REFERENCE COUNT:

THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2001:780643 CAPLUS

DOCUMENT NUMBER: 135:335144

TITLE: Drug delivery system for avoiding pharmacokinetic

interaction between drugs and method thereof

INVENTOR(S): Sawada, Toyohiro; Sako, Kazuhiro; Yoshioka, Tatsunobu;

Watanabe, Shunsuke

Yamanouchi Pharmaceutical Co., Ltd., Japan PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	NO.			KIND DATE				APPLICATION NO.									
								WO 2001-JP3228									
1	V: AE	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	
	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	
	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	PL,	PT,	RO,	RU,	
	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,	
	YU,	ZA,	ZW														
I	RW: GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	
	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	
	BJ	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG			
US 20	002002	2054		A1 20020221			US 2001-834414						20010412				
US 6	761895			B2 20040713													
EP 12	275373			A1		2003	0115		EP 2	001-	9239	66		2	0010	416	
I	R: AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
	IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR							
US 20	005016	8840		A1		2005	0728		US 2	004-	8665	24		2	0040	510	
PRIORITY A	APPLN.	INFO	. :					US 2000-197574P					1	P 2	0000	417	
								US 2001-834414						A1 2	0010	412	
						WO 2	001-	JP32	28	1	W 2	0010	416				

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT Disclosed a system for avoiding an unfavorable pharmacokinetic interaction between a drug and another concomitant drug which comprises controlling the release time and/or release site of the drug and/or the concomitant drug in the body. A controlled-release tablet of conjugatan hydrochloride was prepared and applied to a dog with midazolam oral liquid to examine the blood concentration of midazolam. The obtained conivaptan tablet showed no effect on metabolism of midazolam through drug metabolizing enzyme CYP3A4. 168626-94-6, Conivaptan hydrochloride

RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (drug delivery system for avoiding pharmacokinetic interaction between

drugs and method thereof)

RN 168626-94-6 CAPLUS CN

[1,1'-Biphenv1]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

PAGE 2-A



● HC1

IT 210101-16-9, Conivaptan

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (drug delivery system for avoiding pharmacokinetic interaction between drugs and method thereof)

RN 210101-16-9 CAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

7

OS.CITING REF COUNT:

DD.CITING REF COUNT.

REFERENCE COUNT:

- THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
- 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2001:17852 CAPLUS

DOCUMENT NUMBER: 134:86254

TITLE: Preparation of crystal of condensed benzazepine

derivative

INVENTOR(S): Inakoshi, Masatoshi; Kakuta, Takashi; Kato, Yoshinori

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan; Astellas Pharma Inc.

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

E: Jpn. Kokai Tol CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

LANGUAGE: Japa FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001002678	A	20010109	JP 1999-170444	19990617
JP 4461512	B2	20100512		

PRIORITY APPLN. INFO.: JP 1999-170444

AB α-Type crystal of 4'-[(2-methyl-1,4,5,6-tetrahydroimidazo[4,5-d][1]benzazepine-6-yl)carbonyl]-2-phenylbenzanilide hydrochloride (I)

having specific peaks in X-ray diffraction spectrum is prepared in a large industrial scale starting from crude I crystal via dislocation of

 δ -type crystal to the α -type crystal. I possesses the

ortype trystal to the W type trystal. I possesses the antagonist activity against vasopressin receptor (no data). Thus, 0.25 mL oxalvl chloride and a catalytic amount of DMF were added to a solution of 373

mg o-phenylbenzoic acid in 7.5 mL CH2C12 at -15° with stirring, warmed to room temperature over a period of 2 h, stirred for 2 h, concentrated

under

reduced pressure, and coevaporated with ${\tt CH2C12}$ to give a residue

(o-phenylbenzoyl chloride). The residue was dissolved in 7.5 mL dry MeCN, added dropwise to a suspension of 0.5 σ

6-(4-aminobenzoyl)-2-methyl-1,2,4,5-tetrahydro-imidazo(4,5-

d][1]benzazepine in dry MeCN and 0.608 mL pyridine under ice-cooling, warmed to room temperature, refluxed for .apprx.1 h, cooled, stirred with 4 N

HC1/AcOEt, and filtered to give 1.18 g crude I crystal. Crude I crystal (80 g) was added to a mixture of MeCN 400, MeOH 400, and H20 80 mL, heated

at 45° to dissoln., followed by filtering the solution to remove

floating particles and washing the filter with 80 mL MeOH, and the

combined filtrate and the washing was distilled under normal pressure until a total of 480 mL liquid was distilled. To the residue was added 1,200 mL MeCO, refluxed for 3 h, slowly cooled to 20° , and the precipitated crystals were

filtered, washed with 200 mL MeCN, and vacuum-dried at 80° to give 70.2% I (62.02 g).

IT 168626-94-6P

RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (preparation of α-type crystal of imidazobenzazepine hydrochloride

derivative by crystal dissoln. as vasopressin receptor antagonist)

RN 168626-94-6 CAPLUS CN [1,1'-Biphenvl]-2-c

 $\label{eq:continuous} $$[1,1]^{-Bipheny1}-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(1H)-y1)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)$

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● HCl

IT 210101-16-9P

RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of α -type crystal of imidazobenzazepine hydrochloride derivative by crystal dissoln. as vasopressin receptor antagonist) 210101-16-9 CAPLUS

RN 210101-16-9 CAPLUS CN [1,1'-Biphenyl]-2-

 $\begin{array}{lll} & [1,1]-Biphenyl]-2-carboxamide, & N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1]benzazepin-6(lH)-yl)carbonyl]phenyl]- & (CA INDEX NAME) \end{array}$

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L32 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:495193 CAPLUS

DOCUMENT NUMBER: 131:120908

TITLE: Vasopressin antagonists as preventives or remedies for

vision disorders

INVENTOR(S): Ogawa, Takahiro; Watanabe, Noriko; Waki, Mitsunori PATENT ASSIGNEE(S): Senju Pharmaceutical Co., Ltd., Japan; Yamanouchi

Pharmaceutical Co., Ltd.

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	TENT	KIN	D	DATE			APPLICATION NO.						DATE				
WO	WO 9938533 W: CA, JP, KR,					A1 19990805			WO 1999-JP261						19990125		
			BE,			DE,	DK,	ES,	FI,	FF	R, GB,	GR,	IE,	IT,	LU,	MC,	NL,
	2319	649	35		A1			0805			1999-					9990	
EP	1050	308 DE,	FS	FD	GB,		2000	1108		EP	1999-	9011	51		1	9990	125
US	6268		шо,	110,	B1		2001	0731		US	2000-	6012	16		2	0000	728
PRIORIT	Y APP	LN.	INFO	. :							1998- 1999-					9980 9990	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 131:120908

- AB Disclosed are preventives or remedies for vision disorders based on ocular circulatory disorders, e.g. intraocular hypertension and glaucoma, and vision disorders based on ciliary tension, e.g nearsightedness, wherein the preventives or remedies contain vasopressin antagonists, i.e. benzazepine derivs. as the active ingredients. A suspension eyedrop containing 4'-[(2-methyl-1,4,5,6-tetrahydroimidazo[4,5-d] [1]benzazepine-6-yl)carbonyl]2-phenylbenzanilide HCl 1, NaPH2 0.1,
 - polysorbate 80 0.1, NaCl 0.9 g, NaOH q.s., and water q.s. to 100 mL was prepared, and its effects on ocular circulation, intraocular pressure, etc. were tested using rabbits.
- 168626-94-6 210101-16-9

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(vasopressin antagonists containing benzazepine derivs. for treatment of vision disorders)

- 168626-94-6 CAPLUS RN
- [1,1'-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-CN d][1]benzazepin-6(1H)-yl)carbonyl]phenyl]-, hydrochloride (1:1) (CA INDEX
 - NAME)

PAGE 2-A



RN 210101-16-9 CAPLUS
CN [1,1"-Biphenyl]-2-carboxamide, N-[4-[(4,5-dihydro-2-methylimidazo[4,5-d][1])benzazepin-6(1H)-yl)carbonyl]phenyl]- (CA INDEX NAME)

PAGE 2-A

OS.CITING REF COUNT:

3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

REFERENCE COUNT:

7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT